Straney, D.O.

Catalogue

1976 - 1978

#1 - #1072

Calif
Nevada
Ariz
SE USA
Mexico
Trinidad
CostaRica

D.O. Straney
1976

Herb Martyr Dam, Chrichauka Mts. Cochise Co.
Arizona
25 June 1976

1 Eptesicas fuscus ♀ 115-47-18-9-7-48 = 16.5 Pr. TEV
1emb, CR = 18.

2 Eptesicus fuscus ♂ 120-50-17-10-5-49 = 13.5 NS T V

3 Lasiurus cinereus ♂ 130-55-15-17-6-54 = 20.5 Sar. T V
Total - tail - ear - hind ft. - tragus - Forearm

Old Barn, ~½ mi N Italian Swiss Colony Winery,
Asthi, Sonoma Co., Calif.

3 July, 1976

4 Myotis yumanensis juv ♂ 71-29-11-9-5-31 T skel
5 " " Ad ♀ 78-36-14-9-5-32 Lact T skel
6 " " Ad ♀ 75-38-15-9-5-34 NL T skel
7 " " Ad ♀ 81-38-12-9-5-34 Lact T Ale
8 " " Ad ♀ 78-35-14-9-5-34 Lact T "
9 " " juv ♂ 70-31-13-9-5-33 T "
10 " " Ad ♀ 80-36-15-9-5-34 Lact T "
11 " " juv ♂ 69-30-11-8-5-30 T "
12 Antrozous pallidus Ad ♂ 109-47-28-12-11-57 NS T "

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1976

Golf Course Barn, Aetna Springs, Napa Co., Calif.

10 July, 1976

13	Myotis	thysanodes	Ad ♀	85	-40	-17	-8	-8-43	NL T Alc
14	Myotis	californicus	Ad ♀	96	-46	-11	-10	-6-43	NL T "
15	"	"	Ad ♀	98	-52	-12	-9	-6-40	NL T "
16	"	"	Ad ♀	96	-44	-12	-9	-6-35	NL T "
17	Myotis	yumanensis	Ad ♀	75	-32	-13	-9	-6-35	Lact T "
18	"	"	Ad ♀	77	-37	-13	-9	-6-37	Lact T "
19	"	"	juv ♀	76	-36	-13	-9	-6-36	- T "
20	"	"	juv ♀	76	-36	-14	-10	-6-33	- T "
21	"	"	juv ♀	75	-36	-13	-10	-6-34	- T "
22	"	"	juv ♂	66	-27	-12	-9	-5-29	- T "
23	"	"	Ad ♀	83	-38	-13	-9	-6-35	NL T "
24	"	"	Ad ♀	78	-36	-13	-9	-5-33	Lact T "
25	"	"	Ad ♀	76	-36	-13	-10	-6-33	Lact T "
26	"	"	Ad ♀	78	-39	-14	-9	-6-34	NL T "
27	"	"	juv ♂	71	-35	-12	-9	-6-31	- T "
28	"	"	Ad ♀	81	-37	-13	-9	-6-34	Lact T "
29	"	"	Ad ♀	76	-35	-13	-10	-6-32	Lact T "
30	"	"	Ad ♀	79	-39	-13	-10	-6-34	NL? T "
31	"	"	Ad ♀	79	-38	-13	-9	-6-34	Lact T "
32	"	"	Ad ♀	77	-36	-14	-9	-6-33	NL T "
33	"	"	Ad ♀	76	-33	-13	-10	-6-33	Lact T "
34	"	"	Ad ♀	79	-39	-13	-10	-6-34	Lact T "
35	"	"	Ad ♀	75	-35	-14	-9	-6-33	Lact T "
36	"	"	juv ♀	72	-33	-13	-8	-6-32	- T "

D.O. Straney
1976

Golf Course Barn, Aetna Springs, Napa Co., Calif.

10 July, continued

37	Myotis	yumanensis	juv ♀	68	-30-12-9-6-32	—	T	Alc
38	"	"	Ad. ♀	77	-36-13-10-6-33	NL	T	"
39	"	"	Ad ♀	78	-36-13-9-6-33	Lact	T	"
40	"	"	Ad ♀	80	-38-13-10-6-35	NL	T	"
41	"	"	Ad ♀	79	-33-13-9-6-34	Lact	T	"
42	"	"	Ad ♀	82	-39-13-10-6-35	NL	T	"
43	"	"	juv ♀	73	-33-13-10-6-32	—	T	"
44	"	"	Ad ♀	81	-37-13-10-6-36	Lact	T	"
45	"	"	Ad ♀	79	-34-13-9-6-33	Lact	T	"
46	"	"	Ad ♀	77	-35-13-9-6-34	NL?	T	"
47	"	"	Ad ♀	76	-34-13-9-6-34	Lact	T	"
48	"	"	Ad ♀	78	-36-13-10-6-35	NL	T	"
49	"	"	Ad ♀	84	-38-13-9-6-35	Lact?	T	"
50	"	"	Ad ♀	79	-35-14-10-6-34	NL	T	"
51	"	"	Ad ♀	82	-37-14-10-6-35	Lact	T	"
52	"	"	Ad ♀	78	-36-13-9-6-34	Lact?	T	"
53	"	"	juv ♂	72	-34-13-9-6-32	—	T	"
54	"	"	Ad ♀	79	-37-13-9-6-34	Lact.	T	"
55	"	"	Ad ♀	78	-35-14-10-6-36	Lact.	T	"
56	"	"	Ad ♀	77	-36-13-10-6-32	NL	T	"
57	"	"	juv ♀	78	-39-15-10-6-34	—	T	"
58	"	"	Ad ♀	77	-36-13-10-6-35	Lact	T	"
59	"	"	Ad ♀	78	-33-14-9-6-33	NL	T	"
60	"	"	Ad ♀	80	-35-13-10-6-34	NL	T	"

D.O. Stanley
1976

Golf Course Barn, Aetna Springs, Napa Co., Calif.

10 July, continued

61	Myotis	yumanensis	Ad ♀	80-34-13-10-6-32	NL	T	Ak
62	"	"	juv ♂	73-33-14-10-6-32	—	T	"
63	"	"	Ad ♀	78-36-13-9-6-33	Lact	T	"
64	"	"	juv ♂	51-29-9-9-3-20	—	T	"

Florida Public Health Samples

28 July 1976

					FPH #
65	Lasiurus	intermedius	Ad ♂	—	T —
66	"	"	Ad ♀	6-25-75	T #506
67	Nycticeius	humeralis	Ad ♂	5-7-75	T #380
68	Lasiurus	intermedius	Ad ♀	8-2-75	T #623
69	Lasiurus	intermedius	Ad ♀	7-2-75	T #532
70	Nycticeius	humeralis	Ad ♀	—	T #392
71	Lasiurus	intermedius	juv ♀	6-26-75	T #509
72	Lasiurus	borealis	juv ♂	Santa Rosa Co. Gulf Breeze, 9-5-73	T 139
73	"	"	Ad ♀	mother of 72, 74 75	T 137
74	"	"	juv ♂		T 140
75	"	"	juv ♀		T 138
No → ~~76~~	Lasiurus	intermedius	Ad ♂		no #

O. Stravey
1976

2 mi. NW Williston, Levy Co., Florida.

1 Aug. 1976

76	Bufo	Ad ♀		T	Alc.

1 mi S, 1 mi W Thomasville, Thomas Co. Georgia

4 Aug. 1976

77	Tadarida	Ad ♂	102-39-19-8---31	T	Alc
78	Tadarida	Ad ♂	97-35-18-8---42	T	"
79	Myotis	austroriparius	juv ♂ 89-38-14-10-6-36	T	"
80	"	"	juv ♂ 85-36-13-9-5-36	T	"
81	"	"	juv ♂ 87-39-14-9-6-37	T	"
82	"	"	juv ♂ 88-39-14-10-5-36	T	"
83	"	"	juv ♂ 80-34-13-10-5-37	T	"
84	"	"	juv ♂ 88-36-15-9-6-37	T	"
85	"	"	juv ♂ 90-39-14-9-6-36	T	"
86	"	"	juv ♂ 78-31-14-8-5-33	T	"
87	"	"	juv ♂ 85-35-14-9-5-37	T	"
88	"	"	juv ♂ 81-35-14-9-5-37	T	"
89	"	"	juv ♀ 87-36-14-9-6-36	T	"
90	"	"	juv ♀ 85-36-15-9-6-38	T	"
91	"	"	juv ♀ 89-40-15-10-6-39	T	"
92	"	"	juv ♀ 85-39-15-9-6-36	T	"
93	"	"	juv ♀ 90-38-15-10-6-37	T	"
94	"	"	juv ♀ 85-39-15-10-6-38	T	"

D. O. Strauey

1976

95	Myotis	austroriparius	juv ♀	80-33-12-10-5-34	T	Alc
96	"	"	juv ♀	88-36-15-10-6-38	T	"
97	"	"	juv ♀	85-37-15-10-6-37	T	"
98	"	"	juv ♀	86-35-14-10-5-38	T	"
99	"	"	Ad ♀	94-42-15-10-6-38	T	"
100	"	"	Ad ♀	85-38-14-9-5-36	T	"
101	"	"	Ad ♀	86-39-13-10-5-37	T	"
102	"	"	Ad ♀	93-37-15-10-6-37	T	"
103	"	"	Ad ♀	90-41-15-10-6-39	T	"
104	"	"	Ad ♀	91-43-15-10-6-38	T	"
105	"	"	Ad ♀	89-35-14-10-6-37	T	"
106	"	"	Ad ♀	85-36-14-9-5-36	T	"
107	"	"	Ad ♀	89-37-14-9-6-38	T	"
108	"	"	Ad ♀	88-37-15-10-5-37	T	"

1½ mi. E Jackson Boat Landing, Jackson, Aiken Co., South Carolina

6 Aug 1976

109	~~Myotis lucifugus~~ Nycticeus humeralis	Ad ♂	93-37-12-8-3-37	T	Alc

D. O. Stranley
1976

Savannah River Plant, Aiken and Barnwell Counties, South Carolina
12 Aug.

109	Scaphiopus	holbrooki
110	"	"
111	"	"
112	"	"
113	"	"
114	"	"
115	"	"
116	"	"
117	"	"
118	"	"
119	"	"
120	"	"
121	"	"
122	Gastrophryne	carolinensis
123	Bufo	terrestris
124	"	"
125	"	"
126	Hyla	cinereus
127	"	"
128	Hyla	versicolor
129	"	"
130	Hyla	squirella ?
131	Cemophora	coccinea

D.O. Straney
1976

~~5 mi.~~

old Chalk mine, 5 mi S Iuka, Tishomingo Co.
Mississippi
17 Aug.

132 Pipistrellus subflavus Ad. ♂ 84-35-14-10-4-33 Ns TV Alc.
left calcar greatly reduced.

Tennessee River, 5 mi S Iuka, Tishomingo Co.
Mississippi
17 Aug.

133 Lasiurus borealis Ad ♂ 99-46-11-8-3-39 S T Alc
134 " " Ad ♂ 101-47-10-7-3-41 S T "
135 " " Ad ♂ 104-46-11-7-3-38 S T "
9 hrs 136 " " Ad ♂ 99-48-10-8-3-39 S T "
137 " " Ad ♀ 107-49-11-8-3-41 NL grey T "
8.5 hrs 138 " " Ad ♂ 101-45-11-8-3-47 S T "
9.5+ omits 139 " " Ad ♀ 102-50-11-8-4-40 NL grey T "
140 " " Ad ♀ 100-46-11-8-4-41 NL grey T "

South Forked Deer River, 1 mi. SE Belle, Haywood Co.
Tennessee
19 Aug.

141 Bufo

D.O. Straney
1976

Golf Course Barn, Aetna Springs, Napa Co, Calif.
26 Aug.

142	Myotis yumanensis		♀	Skel
143	"	"	♀	Skel
144	"	"	♀	Skel
145	"	"	♀	Skel
146	"	"	♀	Skel
147	"	"	♀	Skel
148	"	"	♀	Skel
149	"	"	♀	Skel
150	"	"	♀	Skel
151	"	"	♀	Skel
152	"	"	♀	Skel
153	"	"	♀	Skel
154	"	"	♀	Skel
155	"	"	♀	Skel
156	"	"	♀	Skel
157	"	"	♀	Skel
158	"	"	♀	Skel
159	"	"	♀	Skel
160	"	"	♀	Skel
161	"	"	♀	Skel

Muddy River Bridge, Logandale, Clark Co. Nev.
14 Sept.

162	young of year - very fat in crotch. Myotis yumanensis	Ad	♀	87-36-15-7-6-34 T Alc.

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1976

Grapevine Spring, Kyle Canyon, Clark Co., Nevada

15 Sept.

162-1	Myotis californicus	♂	Skel
162-2	Myotis volans	♂	Skel
162-3	Pipistellus hesperus	♂	Skel

D. O. Stramey

1977

Eucalyptus Grove, Berkeley Campus

4 Feb.

163	Lasiurus cinereus	Ad ♀?			

Del Puerto Canyon, Stanislaus Co., Calif

3 June 1977

164	Eptesicus fuscus	Ad ♂	113-46-15-9-7-45	T	Alc
165	" "	Ad ♂	108-40-17-10-7-46	"	"
166	" "	Ad ♂	105-50-16-9-7-46	"	"
167	" "	Ad ♂	112-50-17-9-7-46	"	"
168	" "	Ad ♂	118-45-17-10-7-45	"	"
169	" "	Ad ♂	113-51-15-10-7-45	"	"
170	" "	Ad ♀	118-50-17-10-8-46	"	"

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1977

Meas: Total-tail-foot-ear-tragus-forearm ≡ wt.

MEXICO

3/4 mi W (by trail to Rancho de Cielo) Gomez Farias, Tamaulipas, Mexico

2 July

171	Desmodus rotundas	♂	74-0-15-19-5-59 ≡ 28	TAl	
172	" "	♂	74-0-16-19-5-58 ≡ 31		
173	" "	♀	88-0-16-19-5-63 ≡ 40		
174	" "	♀	83-0-16-18-4-62 ≡ 40		
175	Myotis	♂	71-33-7-12-4-36 ≡ 3.5		
✓ 176	Sturnira	♂	65-0-14-18-4-44 ≡ 27		SK
✓ 177	"	♀	62-0-15-16-4-42 ≡ 15		SK
✓ 178	Artibeus	♂	61-0-13-18-4-41 ≡ 14		SK
179	"	♂	56-0-10-16-4-40 ≡ 12.5		
180	"	♀	57-0-9-17-4-40 ≡ 16		
181	"	♀	57-0-10-15-4-40 ≡ 12		
✓ 182	"	♀	63-0-11-17-4-42 ≡ 16.5		SK

2.3 mi W Las Vigas, Rte 140, Veracruz, Mexico (~2200 m.)

7 July

183	Microtus	♀♂	129-25-19-12	TAl	

1.9 mi NW Teocelo (by rd.), Veracruz, Mexico, 1000+ m.

8 July

184	Desmodus rotundus	♂	71-0-16-20-5-59 ≡ 28	TAl	
185	" "	♂	76-0-19-21-5-64 ≡ 28		
186	" "	♂	70-0-17-19-5-60 ≡ 24		
✓ 187	Anoura	♀	70-0-12-15-3-44 ≡ 15		SK

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1977

1.9 mi NW Teocelo, Veracruz, Mexico, 1000+ m.
8 July - Cont'd.

✓	188	Sturnira ludovici	♂	69-0-11-16-4-46 ≡ 24	T Al	SK
	189	"	♂	67-0-10-17-4-45 ≡ 24		
	190	"	♂	68-0-12-18-4-43 ≡ 23		
	191	"	♂	68-0-12-18-4-46 ≡ 24		
	192	"	♂	67-0-12-18-4-45 ≡ 19		
	193	"	♂	70-0-12-17-4-46 ≡ 27		
	194	"	♂	72-0-12-17-4-45 ≡ 23		
	195	"	♀	66-0-12-17-4-46 ≡ 24		
	196	"	♀	67-0-12-18-4-46 ≡ 20		
✓	197	" ludovici	♀	67-0-13-17-4-46 ≡ 19		SK
	198	"	♀	68-0-13-18-4-46 ≡ 24.5		
	199	"	♀	69-0-12-18-4-46 ≡ 25		
	200	"	♀	67-0-12-18-4-45 ≡ 18		
	201	"	♀	66-0-12-18-4-47 ≡ 20		
	202	"	♀	68-0-12-17-4-44 ≡ 22		
	203	"	Newborn of 202	TL = 27 (:CR)		
	204	"	fetus of 195	TL = 25		
	205	"	fetus of 198	TL = 25		
	206	"	fetus of 199	TL = 26		
	207	Carollia castanea	♂	81-14-13-22-6-42 ≡ 18	T Al	
	208	" "	♂	74-14-13-21-6-41 ≡ 17	T	
	209	" "	♂	77-11-10-20-5-40 ≡ 16	T	
	210	" "	♂	64-14-12-18-5-41 ≡ 11	T	
	211	" "	♂	74-15-11-20-6-42 ≡ 15	T	
	212	" "	♂	64-9-12-21-5-40 ≡ 11.5		
	213	" "	♂	64-8-12-17-6-40 ≡ 13		

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1.9 mi NW Teocelo, Veracruz, Mexico, 1000+ m.
8 July cont'd.

214	Carollia	castanea	♂	63-8-12-19-5-41 ≡ 11	H
215	"	"	♂	68-11-12-20-6-40 ≡ 16	
216	"	"	♂	73-11-12-21-5-42 ≡ 17.5	
217	"	"	♂	69-13-12-20-5-40 ≡ 16	
218	"	"	♂	70-14-12-18-5-40 ≡ 16	
219	"	"	♂	69-11-11-21-5-40 ≡ 17	
220	"	"	♂	68-9-12-19-5-41 ≡ 16.5	
221	"	"	♂	71-8-11-18-5-41 ≡ 18	
222	"	"	♂	66 -10- 12-19-6-42 ≡ 16	
223	"	"	♂	70-10-12-19-5-40 ≡ 16	
224	"	"	♀	62-4-12-20-5-41 ≡ 11.5	T
225	"	"	♀	67-14-12-19-5-41 ≡ 12.5	T
226	"	"	♀	62-9-12-15-5-39 ≡ 12	T
227	"	"	♀	67-10-12-20-5-40 ≡ 14	T
228	"	"	♀	65-9-12-19-5-39 ≡ 12.5	T
229	"	"	♀	67-7-12-20-6-42 ≡ 13	
230	"	"	♀	59-6-11-16-5-39 ≡ 11	
231	"	"	♀	72-12-12-19-5-42 ≡ 14.5	
232	"	"	♀	74-12-12-21-6-42 ≡ 13	
233	"	"	♀	62-9-11-19-5-40 ≡ 11	
234	"	"	♀	68-9-12-20-5-42 ≡ 16.5	
235	"	"	♀	66-10-12-20-5-40 ≡ 15	
236	"	"	♀	68-11-12-20-5-40 ≡ 15	
237	"	"	♀	68-11-11-20-5-39 ≡ 16	

[Numbers 238-249 skipped]

D.O. Straney
1977

Town Bridge, Coatlapan, Veracruz, Mexico 970 m.

11 July

✓ 250 Artibeus jamaicensis ♀ L Pr. 83-0-15-18-6-63 T Al Sk
~~Phyllostomus~~

♂=Cueva de la Tempisquisqle

Cave 1, Coatlapan, Veracruz, Mexico 970+ m.

12 July

251 Diphylla ecaudata ♂ 75-0-14-15-5-54 T Al
252 Desmodus rotundus ♂ 63-0-16-17-5-54 T Al
253 " " ♂ 64-0-15-17-5-52 T Al
254 " " ♂ 61-0-16-17-5-51 T Al

Cave 2, Coatlalpan, Veracruz, Mexico 970+ m.

11 & 12 July

✓ 255 Glossophaga ♀ 64-9-9-13-3-36 T Al Sk
256 Carollia castanea ♀ 71-11-12-18-6-39 Al
257 " " ♂ 66-11-12-18-5-39 Al
258 " " ♀ 63-7-11-16-5-38 Al
259 " " ♂ 60-7-11-16-5-35 Al
260 " " ♂ 60-9-12-18-5-41 Al
261 " " ♀ 70-10-12-18-5-41 Al
262 " " ♀ 65-10-12-17.5-40 Al
263 Glossophaga ♂ 41-3-8-9-3-20 Al

1.6 mi. S Vista Hermosa, Oaxaca, Mexico 1600 m.

13 July

✓ 264 Myotis ♂ 87-40-6-12-4-38 = 4.5 T Al Sk

D.O. Stramey

1977

Stream 1mi N Ixtlán, Hwy 175, Oaxaca, Mexico 1930m.

17 July

✓	265	Sturnira ludovici	♀	69-0-12-10-4-45≡20		TAI SK

23.9 mi N Matias Romero, Hwy 185, Oaxaca, Mexico, ~100m.

22 July

	266	Carollia castanea	♂		71-6-13-22-6-44≡23	TAI
	267	"	"	♂	72-11-12-20-6-40≡15	TAI
	268	"	"	♀ P	66-9-12-19-5-41≡18	TAI
	269	"	"	♀ P	64-8-12-19-6-41≡17	TAI
	270	"	"	♀	74-9-13-19-6-41≡15	TAI
	271	"	"	♀	64-9-10-20-5-40≡15	TAI
	272	"	"	♀	63-11-11-19-6-40≡16	TAI
	273	"	"	Newborn of 272 CR=30		AI
✓	274	Sturnira lilium	♀	63-0-10-17-4-40≡16		TAI SK

Cascada Mizola, 12.5 mi S (by rd.) Palenque, Chiapas, Mexico ~250m.

29 July

✓	275	Peropteryx kappleri	♀	72-19-10-17-4-49≡8		T SK P BB
MVZ	276	"	"	♂	69-16-9-16-5-50≡8	TAI P
MVZ	277	"	"	♂	71-19-10-15-5-49≡8.5	TAI P
	278	"	"	♂	69-18-10-17-5-51≡8	TAI P
MVZ	279	"	"	♀	73-20.9-17-5-52≡10	TAI
MVZ	280	"	"	♀	75-19-10-18-4-51≡10	TAI
	251	"	"	♀	71-18-9-18-5-52≡9.5	TAI
	282	"	"	♀	65-15-9-16-4-48≡7	TAI

D.O. Stravey
1977

Trinidad

Simla, 4 mi N 1 mi E Arima, Arima Ward, St. George Co., Trinidad 23 Aug.

✓ 283	Artibeus cinereus	♀	58-0-8-16-3-41 ≡ 15	TAI	SK
284	" "	♀	56-0-10-17-4-41 ≡ 12	TAI	
285	" "	♂	58-0-9-16-3-41 ≡ 11		
✓ 286	micronycteris megalotis	♂	58-15-9-21-5-34 ≡ 4.5	TAI	SK
287	Artibeus lituratus	♂	92-0-17-23-5-72 ≡ 57	TAI	
288	" "	♂	94-0-17-24-5-75 ≡ 62	TAI	
289	Artibeus jamaicensis	♂	77-0-14-21-4-58 ≡ 33	TAI	
290	" "	♂	82-0-15-21-4-58 ≡ 35	TAI	
291	" "	♀	80-0-14-21-4-56 ≡ 32	TAI	
✓ 292	Carollia perspicillata	♂	60-9-12-18-5-42 ≡ 13	TAI	SK
293	" "	♂	71-10-11-17-6-43 ≡ 15	TAI	
294	" "	♂	68-11-12-18-6-43 ≡ 14	TAI	
295	" "	♂	67-9-11-19-5-41 ≡ 14	TAI	
296	" "	♂	68-10-11-19-5-44 ≡ 17	TAI	
297	" "	♂	67-10-11-18-5-44 ≡ 15	TAI	
298	" "	♂	63-9-12-17-5-41 ≡ 14	TAI	
299	" "	♂	69-10-12-17-5-42 ≡ 14	TAI	
300	" "	♂	71-10-13-21-6-44 ≡ 17	TAI	
301	" "	♂	66-10-12-18-5-42 ≡ 14	TAI	
302	" "	♂	64-8-12-17-5-42 ≡ 14	TAI	
303	" "	♀	67-10-12-20-5-42 ≡ 16	TAI	
304	" "	♀	71-11-12-19-5-42 ≡ 17	TAI	
305	" "	♀	67-8-11-21-5-42 ≡ 16	TAI	
306	" "	♀	69-10-12-19-5-44 ≡ 17	TAI	
307	" "	♀	71-12-12-20-5-41 ≡ 16	TAI	

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1977

Simla, 4 mi N, 1 mi E Arima, Arima Ward, St. George Co., Trinidad
24 Aug.

✓	308	Microuyctcris nicefori	♂	61-8-9-19-5-38 ≡ 8	T AI	SK
	309	Pteronotus daveyi	♀	75-25-9-17-4-47 ≡ 9	T AI	

Logging road, 10 mi N (by road) Arima, Arima Ward, St. George Co., Trinidad.
26 Aug.

✓	310	Microuyctcris nicefori	♂	62-11-11-19-4-39 ≡ 8	T AI	SK
✓	311	Glossophaga soricina	♂	59-8-9-16-4-37 ≡ 6.5	T AI	SK
✓	312	Uroderma bilobatum	♀	67-0-11-17-4-44 ≡ 24	T AI	SK
✓	313	Vampyrodes caraccioloi	♂	76-0-12-19-4-49 ≡ 24	T AI	SK
	314	" "	♂	66-0-10-16-3-38 ≡ 15	T AI	SK
	315	" "	♂	67-0-10-17-4-38 ≡ 13	T AI	
	316	316a = yg. born in bag " "	♀	73-0-11-17-3-41 ≡ 22	T AI	
✓	317	Artibeus cinereus	♂	61-0-10-16-4-41 ≡ 14	T AI	SK
	318	" "	♂	62-0-10-16-4-40 ≡ 12	T AI	
	319	" "	♂	61-0-9-16-4-40 ≡ 12	T AI	
	320	" "	♂	60-0-10-16-4-41 ≡ 12	T AI	
	321	" "	♀	60-0-9-16-3-41 ≡ 14	T AI	
	322	" "	♀	59-0-10-15-4-40 ≡ 12	TAI	
	323	" "	♀	60-0-9-16-4-40 ≡ 12	TAI	
	324	" "	♀	62-0-10-16-4-40 ≡ 13	TAI	
✓	325	Chiroderma villosum	♂	71-0-10-18-4-46 ≡ 21	T AI	SK
	326	" "	♀	77-0-10-19-4-46 ≡ 23	T AI	
✓	327	Artibeus jamaicensis	♂	81-0-15-18-3-58 ≡ 36	TAI	SK
	328	" "	♀	88-0-14-21-4-61 ≡ 40	T AI	

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26 Aug., cont'd.

329	Artibeus jamaicensis	♀	88-0-13-20-4-59≡49	T A I	
✓ 330	Sturnira	♂	64-0-12-17-4-45≡22	T A I	Sk
331	" "	♀	67-0-12-17-3-41≡19	T A I	
✓ 332	"	♀	69-0-10-20-4-44≡26	T A I	Sk
333	" "	♀	70-0-12-19-5-45≡21	T A I	
✓ 334	Myotis ~~nigricans~~	♂	75-37-7-11-4-35≡3	TAI	SK
✓ 335	Eptesicus melanopterus	♂	101-45-9-15-4-42≡9	TAI	SK
336	" "	♀	97-43-8-14-5-44≡11	TAI	
337	Carollia perspicillata	♂	76-9-11-22-5-44≡17	AI	
338	" "	♂	70-10-12-20-5-43≡16		
339	" "	♂	70-11-11-20-5-41≡13		
340	" "	♂	66-11-11-19-5-42≡15		
341	" "	♂	72-11-11-20-5-40≡16		
342	" "	♂	70-10-12-19-5-43≡15		
343	" "	♂	69-10-12-20-5-42≡16		
344	" "	♂	70-10-10-20-6-44≡18		
345	" "	♂	70-11-10-20-5-42≡15		
346	" "	♂	71-11-11-20-5-43≡16		
347	" "	♂	67-9-12-20-5-44≡17		
348	" "	♂	73-12-13-20-5-42≡15		
349	" "	♂	71-12-11-19-6-41≡16		
350	" "	♂	62-8-11-19-5-42≡13		
351	" "	♂	71-10-13-18-6-45≡16		
352	" "	♂	73-12-11-19-5-42≡16		
353	" "	♂	72-12-12-20-5-42≡17		
354	" "	♂	51-7-11-14-3-25≡5		
355	" "	♀	71-10-11-19-5-42≡15		

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1977

26 Aug Cont'd.

356	Carollia perspicillata		♀	70-11-11-20-5-43 ≡ 14	A1
357	"	"	♀	68-12-12-20-5-42 ≡ 16	
358	"	"	♀	68-11-11-20-5-42 ≡ 13	
359	"	"	♀	75-11-12-21-6-44 ≡ 17	
360	"	"	♀	75-15-12-20-5-43 ≡ 18	
361	skin, skull, c-s	"	♀	71-12-11-19-5-43 ≡ 16	
362	"	"	♀	70-11-11-20-6-43 ≡ 16	
363	"	"	♀	71-10-11-21-5-43 ≡ 16	
364	"	"	♀	72-12-11-19-5-43 ≡ 18	
365	head sect. "	"	♀	70-12-11-20-5-43 ≡ 15	
366	head sect. "	"	♀	69-10-11-20-5-42 ≡ 16	

St. Andrew Co.

1.4 mi E, 2.9 mi N (by road) Valencia, Valencia Ward, ^, Trinidad

28 Aug.

367	Artibeus jamaicensis		♂	82-0-15-21-5-61 ≡ 39	TA1
368	"	"	♂	84-0-14-20-4-57 ≡ 35	TA1
369	"	"	♂	85-0-15-21-5-59 ≡ 36	TA1
370	Artibeus cinereus		♂	56-0-8-13-3-36 ≡ 11	TA1
371	"	"	♂	55-0-8-15-3-38 ≡ 11	TA1
372	"	"	♂	62-0-9-16-4-40 ≡ 12	TA1
373	"	"	♀	59-0-9-16-4-39 ≡ 12	TA1
374	Vampyrops helleri		♀	59-0-9-16-4-38 ≡ 13	TA1 SK
375	Uroderma bilobatum		♂	68-0-10-17-4-41 ≡ 16	TA1
376	Sturnira		♀	69-0-11-18-5-43 ≡ 19	TA1
377	"		♀	77-0-13-19-5-49 ≡ 25	TA1
378	"		♂	newborn of 377	-A1

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1977

28 Aug. Cont'd.

379	Glossophaga soricina	♂	63-10-9-14-3-37 ≡ 10	TAI
380	Choeroniscus intermedius	♀	70-8-8-12-3-36 ≡ 8	TAI SK

Aripo Savannah, 0.2 mi N, 0.5 mi E Cumuto ~~Cumuto~~, Tamana Ward, St. Andrew Co., Trinidad

29 Aug.

381	Pteronotus parnellii	♀	103-25-12-22-5-63 ≡ 17	TAI
382	Glossophaga soricina	♂	67-11-9-13-3-36 ≡ 11	TAI
383	Artibeus cinereus	♂	59-0-8#-15-4-40 ≡ 12	TAI

Captive bat of G.W. McCracken

384	Phyllostomus hastatus	♀	118-19-17-30-9-79 ≡ 60	TAI

Tamana Cave, Charuma Ward, Nariva Co., , Trinidad

31 Aug.

385	Mormoops megalophylla	♀	82-28-11-12-2-57 ≡ 15	TAI
386	" "	♀	97-25-10-13-2-57 ≡ 16	TAI
387	" "	♂	88-26-10-14-2-56 ≡ 15	TAI
388	" "	♂	94-26-11-13-2-58 ≡ 15	TAI
389	" "	♂	94-26-11-13-2-57 ≡ 14	TAI
390	" "	♀	96-28-11-12-2-57 ≡ 15	TAI
391	" "	♂	91-23-11-12-2-57 ≡ 14	TAI
392	" "	♂	94-27-11-14-2-57 ≡ 14	TAI
393	" "	♀	85-24-11-14-2-61 ≡ 17	TAI
394	" "		88-27-11-13-2-56 ≡ 17	TAI
395	" "		NO # 395	~~TAI~~
396	Pteronotus parnellii	♀	91-24-14-20-$\frac{5}{2}$-60 ≡ 16	TAI
397	" "	♀	87-23-14-15-5-83 ≡ 16	TAI

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1977

31 Aug, cont'd.

398	Pteronotus	parnellii	♂ 96-26-14-20-5-62 ≡ 16	TAI
399	"	"	♀ 88-25-14-21-4-61 ≡ 16	TAI
400	"	"	♂ 90-25-13-22-5-62 ≡ 16	TAI
401	"	"	♂ 93-25-14-20-5-62 ≡ 15	TAI
402	"	"	♂ 91-25-14-19-5-63 ≡ 16	TAI
403	"	"	♂ 91-25-13-20-5-60 ≡ 16	TAI
404	"	"	♀ 94-25-14-21-5-63 ≡ 19	TAI
405	"	"	♀ 90-25-14-20-5-61 ≡ 17	TAI
406	Pteronotus	davyi	♂ 82-25-11-15-3-49 ≡ 8	TAI
407	"	"	♂ 82-25-11-16-4-46 ≡ 8	TAI
408	"	"	♀ 81-25-10-16-4-48 ≡ 8	TAI
409	"	"	♂ 78-25-10-16-3-49 ≡ 8	TAI
410	"	"	♀ 80-22-10-15-3-48 ≡ 8	TAI
411	"	"	♀ 72-24-11-15-3-48 ≡ 8	TAI
412	"	"	♂ 78-25-11-15-3-47 ≡ 9	TAI
413	"	"	♂ 76-23-11-15-3-49 ≡ 9	TAI
414	"	"	♀ 74-25-11-15-3-49 ≡ 9	TAI
415	"	"	♂ 77-24-10-16-3-49 ≡ 9	TAI
416	Pteronotus	personata	♂ 67-20-10-15-3-45 ≡ 7	TAI
417	"	"	♂ 63-19-10-16-3-45 ≡ 6	TAI
418	"	"	♂ 67-17-10-15-3-45 ≡ 6	TAI
419	"	"	♀ 65-19-10-15-3-45 ≡ 6	TAI
420	"	"	♀ 65-17-10-16-3-46 ≡ 6	TAI
421	"	"	♀ 63-17-10-15-3-44 ≡ 6	TAI
422	"	"	♂ 62-18-11-16-4-45 ≡ 6	TAI
423	"	"	♂ 64-19-10-15-3-46 ≡ 7	TAI
424	"	"	♀ 64-19-9-15-3-46 ≡ 6	TAI

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31 Aug. Cont'd.

425	Pteronotus personatus	♀	67-20-10-15-3-47≡8	TAI
426	Natalus tumidirostris	♂	95-50-8-14-2-40≡5	TAI
427	" "	♂	95-56-8-14-2-40≡5	TAI
MVE 428	" "	♂	100-56-8-15-2-41≡6	TAI
MVE 429	" "	♂	101-56-8-14-2-42≡6	TAI
MVE 430	" "	♀	95-50-8-15-2-39≡5	TAI
MVE 431	" "	♀	94-48-8-14-2-40≡5	TAI
432	" "	♀	95-51-8-14-2-39≡5	TAI
433	" "	♂	101-56-9-15-2-42≡6	TAI
~~434~~	~~"~~	No # 434		~~TAI~~
435	Anoura geoffroyi	♀	62-0-11-13-3-43≡15	TAI

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1977

J.E. Cadle Guatemala collection

Cave on CA-14, 7.4 mi S Coban, Depto. Alta Verapaz, Guatemala. 1450m.

15 Aug. 1977

JEC	1211	Desmodes	rotundus	TAH
	1212	"	"	TAH
	1213	"	"	TAH
	1214	"	"	TAH
	1215	"	"	TAH
	1216	"	"	TAH

Cave on Ruta Nacional 5, 1.3 mi NW Finca Chapultepec (or 4.6 mi NW Campur), Depto. Alta Verapaz, Guatemala. 920m.

16 Aug. 1977

JEC	1217	Balantiopteryx	io	TAH
	1218	"	"	TAH
	1219	"	"	TAH

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1977

Jim Hanken - Carla Markman Costa Rican collection

Hotel Caribé, access street from Parqué Vargas, Limon,
Prov. Limon, Costa Rica

23 Aug. 1977

JH 292 Artibeus phaeotis ♀ T A1

Green turtle Station, Tortuguero, Prov. Limon
Costa Rica

29 Aug. 1977

JH 305 Glossophaga soricina ♀ Pr T A1

Hotel Flor-Mar Super Soda, Monteverde,
Prov. Puntarenas, Costa Rica . ~1500 m.

CM 154 Glossophaga soricina ♀ pr T A1
CM 155 Anoura geoffroyi ♂ T A1
CM 156 Sturnira ludivici ♂ T A1
CM 157 " " ♀ T A1
CM 158 " " ♀ T A1
CM 159 Artibeus toltecus ♂ FA=37 T A1
CM 160 Artibeus aztecus ♀ } FA=41-42 T A1
CM 161 " " ♀ T A1

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meas: Total-Tail-foot-ear-tragus-forearm ≡ wt (gms.)

Mexico

Cueva de las Tempisquisgle, Coatlapan, Veracruz, Mexico — 9 Dec. 1977

#						
[no #436]						
437	Desmodus	rotundus	♀	74-0-17-20-5-62 ≡ 28	M A1	
438	"	"	♀	83-0-15-20-6-60 ≡ 24	M A1	
439	"	"	♀	78-0-16-19-5-59 ≡ 29	M A1	
440	"	"	♀	84-0-14-20-5-63 ≡ 40	M A1	
441	"	"	♀	63-0-~~16~~ 17-5-44 ≡ 17	A1	Suckling of 440
442	"	"	♂	74-0-16-18-5-58 ≡ 22	M A1	

Cuhatemoc Park, Barranka de San Miguel, 1.5 km W Fortin de las Flores, Veracruz, Mexico — 9 Dec. 1977

443	Anoura	geoffroyi	♂	68-0-11-15-3-46 ≡ 15	M T A1	SK
444	Sturnira	lilium	♀	61-0-12-16-3-42 ≡ 15	T A1	
445	"	ludovici	♀	71-0-12-15-4-45 ≡ 17.5	T A1	
446	"	ludovici	♀	68-0-13-18-3-44	M T A1	
447	"	lilium	♀	58-0-11-15-4-39	T A1	
448	"	"	♀	59-0-11-15-4-40	A1	
449	"	"	♂	61-0-11-15-3-40	A1	
450	Artibeus	Toltecus	♂	56-0-9-14-4-42 ≡ 13	T A1	SK
	head sect. (molars 2/3)					
451	Artibeus	jamaicensis	♂	82-0-15-20-4-62	A1	yucatanicus
452	"	"	♂	74-0-13-21-4-60	A1	"
453	"	"	♀	80-0-13-20-3-59	A1	"
454	"	"	♀	81-0-14-20-4-58	A1	"
455	"	"	♂	85-0-15-20-3-57 ≡ 35	A1	"
456	"	"	♀	77-0-15-19-3-59 ≡ 32	A1	"
(scanded)	~~457~~	"	"		Skel	

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1977

9 Dec. cont'd.

458	Artibeus jamaicensis			skel
~~459~~	"	"		~~skel~~
dead ~~460~~	"	"		~~skel~~
461	"	"		skel
~~462~~	"	"		~~skel~~
~~463~~	"	"		~~skel~~
464	Carollia brevicauda	♂	67-9-11-15-5-39 Ξ 15	AI
465	"	♀	75-11-11-19-5-42 Ξ 16	AI
~~466~~				~~skel~~
~~467~~				
~~468~~				
~~469~~				
~~470~~				
carded ~~471~~				
~~472~~				
~~473~~				
~~474~~				
~~475~~				
~~476~~				
~~477~~				
478	Pteronotus parnellii	♀	93-26-14-21-4-60	T AI

8.5 Km S Matias Romero, Oaxaca, Mexico.

10 Dec.

479	~~Marmosa~~ Philander opposum	♀	540-290-41-32	T AI

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1977

Cuhafemac Pk., Barranca de San Miguel, 1.5 Km W Fortin de las Flores, Veracruz, Mexico

9 Dec

480	Desmodus rotundus	♀ 82-0-17-18-5-56	A1
481	Desmodus rotundus	♂ 85-0-16 19-5-56	A1

8.5 Km S Matias Romero, Oaxaca, Mexico

10 Dec.

482	Phyllostomus discolor	♂ 91-11-14-21-6-61	MTA1
483	Pteronotus pannellii	♂	MTA1
484	" "	♂	TA1
485	" "	?	TA1
486	Sturnira	♀	A1
487	" lilium	♀	A1
488	Carollia	♂	A1
489	"	♀	A1
490	"	♀	A1
491	"	♀	A1
492	"	♀	A1
493	"	♀	A1
494	Glossophaga soricina	♂	A1
495	" soricina	♂	A1
496	" soricina	♀	A1
497	" soricina	♂	A1
498	" soricina	♀	A1
499	" soricina	♀	A1

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1977

10 Dec. cont'd.

500	Artibeus	~~lituratus~~ Jamaicensis	♀		61.5	m TAI
501	"	Jamaicensis	♀		61	M TAI
502	"	Jamaicensis	♀		61	AI
503	Artibeus	jamaicensis	♀	88-0-14-20-4-~~8~~ 5	8	BT AI Y-T-P I
504	"	"	♀		60	BT AI
505	"	"	♀		57	AI
506	"	"	♀		60	AI
507	"	"	♀		61	AI
508	"	"	♀		62	AI
509	"	"	♀		59	AI
510	"	"	♂		60	AI
511	"	"	♂		60	AI
512	"	"	♀		60	AI
513	"	"	♂		60	AI
514	Artibeus	lituratus	♂		68	AI
515	"	"	♂		67	AI
516	"	"	♂		70	AI

Stream on Hwy 190, 7.3 Km NE Junct. with 200, Oaxaca, Mexico

11 Dec.

517	Trachops	cirrhosus	♂		m T AI
518	"	"	♂		m T AI
519	Phyllostomus	discolor	♀		m ~~T~~ AI
520	"	"	♀		m ~~T~~ AI
521	"	"	♀		m ~~T~~ AI
522	"	"	♀		m ~~T~~ AI

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1977

11 Dec. Contd.

[illegible]	523	Glossophaga ♂	MTAI
[illegible]	4	" ♂ Soricina	MTAI
	5	" ♀ Soricina	MTAI
	6	" ♀	MTAI
	7	" ♂ Soricina	MTAI
	8	" ♂ Soricina	MTAI
	9	" ♀ Soricina	MTAI
	530	" ♀ Soricina	MTAI
labelled 52- are not dissected.	1	" "	AI
	2	" [illegible]	AI
	3	" Soricina 523	AI
	4	" [illegible] missing?	AI
	5	" Soricina 525	AI
	6	" Soricina 526	AI
	7	" Soricina 527	AI
	8	" Soricina 528	AI
	9	" Soricina 529	AI
	540	" Commissarisi	AI
	1	" Commissarisi?	AI
	2	" Soricina	AI
	3	" Soricina	AI
	4	" Soricina	AI
	5	" Soricina	AI
	6	" Soricina Commissarisi?	AI
	7	" Soricina	AI
	8	" Soricina. [illegible]	AI
	9	" Soricina?	AI

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11 Dec. cont'd.

550	Glossophaga	Soricina			A1
551	"	Commissarisi			A1
552	"	Soricina			A1
553	"	"			A1
554	"	"	"		A1
555	Carollia				A1
556	"				A1
557	Phyllostomus	discolor			A1
558	"	"			A1
559	"	"			A1
560	"	"			A1
561	Sturnira	lilium			A1
562	"	"			A1
563	"	"			A1
564	"	lilium jamaicensis			A1
△ 565	Artibeus	~~literatus~~		61	A1 Y-T-P?
566	"	lituratus		66	A1

"LA Pera", 8mi. N (by road) Berriozabal, Chiapas, Mexico.

12 Dec.

567	Hylonycteris	underwoodi	♀		MTA1
568	Anoura	geoffroyi	♂		MTA1
569	"	"	♂		MTA1
570	"	"	♂		MTA1
571	Carollia				A1
ID 572	Artibeus	jamaicensis		62	A1 paulus

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12 Dec., cont'd.

ID	573	Artibeus	jamaicensis		61	A1 paulus
ID	574	"	"		62	A1 "
ID	575	"	"		63	A1 "

Stream on Hwy 195, 1.2 KM. NE Junction with 190,
Chiapas, Mexico
13 Dec.

576	Lasiurus	borealis	♂	102-50-8-10-3-39=7	TA1
7	~~Vampyrodes~~ Chiroderma	~~bidentatus~~ salvini	♀	FA=45.1	MTA1
8	Artibeus	geoffroyi	♀		MTA1
9	"	"	♂		MTA1
580	"	"	♂		MTA1
1	"	"	♀		MTA1
2	"	"	♂		MTA1
3	"	"			A1
4	"	"			A1
5	"	"			A1
6	"	"			A1
7	"	"			A1
8	"	"			A1
9	"	"			A1
590	"	"			A1
1	"	"			A1
2	"	"			A1
ID 3	Artibeus	toltecus	♂	40	MTA1
ID 4	"	"	♂	39	MTA1
ID 5	"	"	♂	39	MTA1

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1977

13 Dec. Cont'd.

596	Artibeus	Jamaicensis	♂	38	M T Al
7	"	"		39	Al
8	"	"		39	Al
9	"	"		39	Al
600	Sturnira	ludovici	♂		M T Al
1	"	"	♂		M T Al
2	"	"	♂		M T Al
3	"	"	♂		M T Al
4	"	lilium			Al
5	Pteronotus	davyi	♂		M T Al
6	Pteronotus	parnellii	♂		M T Al
7	"	"	♀		M T Al
8	"	"			Al
9	"	"			Al
10	"	"			Al
11	Artibeus	literatus		67	Al
12	"	"		66	Al
13	"	"		65	Al
14	"	"		66	Al
15	Glossophaga	soricina			Al
616	Myotis	nigricans (?)	♂		Al
17	Sturnira	lilium	♀		T Al
18	"	"			Al
19	"	"			Al
20	"	"			Al
21	"	"			Al
22	"	"			Al

D. O. Stramey
1977

7.3 km NE junct 190-200 (on 190), Oaxaca, Mexico

14 Dec.

623	Centurio	senex		M T A I
624	Sturnira	lilium		A I
625	Glossophaga	soricina		A I
626	"	" ?		A I
7	"	"		A I
8	"	"		A I
9	"	"		A I
30	"	commissarisi		A I
1	"	"		A I
2	Pteronotus	davyi		A I
3	"	"		A I
4	"	"		A I
5	"	"		A I
6	"	"		A I
7	Carollia			A I
8	"			A I
9	"			A I
40	"			A I
1	Artibeus	lituratus	63	A I
2	Phyllostomus	discolor		A I
3	"	"		A I
4	"	"		A I

D.O. Stuart
1977

2.8 Km N Trinidad, Chiapas, Mexico
15 Dec.

ID 645	Artibeus toltecus		FA=38	A1
646	Sturnira lilium			A1
7	"	"		A1
8	"	"		A1
9	Carollia			A1
650	"			A1
1	"			A1
2	"			A1
3	"			A1
4	Artibeus lituratus		FA=67	A1
5	Sturnira lilium			A1

Km 212 in Hwy 200, Chiapas, Mexico
16 Dec.

656	Chiroderma villosum	♂	FA=44.2	MTA1
7	Artibeus phaeotis	♂		MTA1
8	"	♂		MTA1
9	"	♀		MTA1
660	Artibeus toltecus	♀	FA=37	MTA1
1	Uroderma b. lobatum	♀		MTA1
2	"	♂		MTA1
3	"	♀		MTA1
4	"	♀		MTA1
5	"	♀		MTA1
6	Myotis nigricans (?)	♀		A1

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1977

16 Dec. cont'd.

667	MVZ	Eptesicus gaumeri gaumeri	♀	FA = 40	A1	
8	MVZ	" " "	♂	FA = 38	A1	
9		Carollia			M A1	
670		"			M A1	
1		"			M A1	
2		"			M A1	
3		"			M A1	
4		"			A1	
5		"			A1	
6		"			A1	
7		"			A1	
8		"			A1	
9		Artibeus jamaicensis		58	A1	paulus
680		"	"	60	A1	"
1		"	"	62	A1	"
2		"	"	61	A1	"
3		Artibeus lituratus		69	A1	
4		"	"	68	A1	
5		"	← jamaicensis	63	A1	paulus
6		"	← jamaicensis	61	A1	"
7		Sturnira	lilium		A1	
8		"	"		A1	
9		"	"		A1	
690		"	"		A1	
1		"	"		A1	
2		"	"		A1	
3		"	"		A1	

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1977

16 Dec. Cont'd.

694	Sturnira lilium		AI
695	Carollia		AI
696	"		AI
697	Artibeus Toltecus	♂ 37	AI

10.2 Km NW Pijijiapan, Hwy 200, Chiapas, Mexico

17 Dec.

698	Pregnant Tamandua tetradactyla ♀		T
699	"	fetus of 698	AI

3.4 Km SE Mapastepec, Chiapas, Mexico

17 Dec.

700	Saccopteryx		AI
701	"		AI

Pijijiapan, Chiapas, Mexico

17 Dec.

702	Noctilio leporinus		mT AI
MVZ 703	Eptesicus gaumeri gaumeri ♂	FA = 37	AI
4	Saccopteryx		AI
5	Pteronotus davyi		AI
6	" "		AI
7	" "		AI
8	Pteronotus	m	Al
9	"		Al
710	Sturnira lilium		Al
1	" "		Al

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17 Dec. cont'd.

712	Sturnira		Al	
3	Glossophaga	soricina	Al	
4	"	"	Al	
5	"	"	Al	
6	"	"	Al	
7	"	"	Al	
8	"	"	Al	
9	"	"	Al	
△ 720	Artibeus ~~#####~~ jamaicensis		63	Al paulus
1	Artibeus*	lituratus#	68	Al
2	"	"	65	Al
3	"	"	66	Al
4	Artibeus	jamaicensis	59	Al paulus
5	"	"	57	Al "
6	"	"	62	Al "
7	"	"	57	Al "
8	Carollia			Al
9	"			Al
730	"			Al
1	"			Al

13.2 km SE Tonala on Hwy 200, Chiapas, Mexico

18 Dec.

732	Lonchorhina	aurita	mTAl
3	"	"	mTAl
4	"	"	mTAl
5	"	"	mTAl

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18 Dec. cont'd.

736	Lonchorhina aurita			M T Al
737	Glossophaga soricina			M T Al
8	" "			M T Al
9	" Commissarisi			M T Al dark
740	" "			M T Al dark
ID 1	Eptesicus gaumeri gaumeri ♀		FA=39	T Al
ID 2	Eptesicus " " ♂		FA=38	T Al
3	Cavollia			Al
4	"			Al
5	Artibeus lituratus		FA= 67	Al
6	Sturnira lilium			Al
7	" "			Al
8	Pteronotus parnellii			T Al 1♀
9	" "			T Al 1♀

Bridge 13.2 Km SE Tonala on Hwy 200, Chiapas, Mexico

19 Dec.

750	Saccopteryx	T Al
1	"	T Al
2	"	T Al
3	"	T Al

~~Bridge~~ 8.4 Km SE Tonala on Hwy 200, Chiapas, Mexico

19 Dec.

754	Uroderma bilobatum	Al
755	Saccopteryx	Al
756	Eptesicus	Al

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19 Dec., Cont'd.

757	Sturnira lilium	A1
8	Carollia	A1
9	"	A1
760	Glossophaga	A1
1	"	A1
2	"	A1
3	"	A1
4	"	A1
5	Artibeus jamaicensis	A1
6	" "	A1
7	" "	A1
8	" "	A1
9	" "	A1
770	" "	A1
1	" "	A1
2	" "	A1
3	Artibeus literatus	A1
4	" "	A1
5	" "	A1
6	" "	A1
7	" "	A1
8	" "	A1
9	" "	A1
780	" "	A1
1	" "	A1
2	" "	A1
3	" "	A1

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19 Dec., cont'd.

784	Pteronotus	parnellii	A1
5	"	"	A1
6	"	"	A1
7	"	"	A1
8	"	"	A1
9	"	"	A1
790	"	"	A1
1	"	"	A1
2	"	"	A1
3	"	"	A1
4	"	"	A1
5	"	"	A1
6	"	"	A1
7	Noctilio	leporinus	A1
8	Noctilio	leporinus	A1
9	"	"	A1
800	"	"	A1
1	"	"	A1
2	"	"	A1

20 Dec.

803	Tadarida		

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29 March

S.2 mi SE Portal, Cochise Co., Arizona

804 Pituophis melanoleucas DoR ~4 PM

4.4 mi SE Portal, Cochise Co., Arizona

805 Crotalus scutulatus DoR ~8 PM Cool Air Temp.

30 March

806 Plecotus townsendii Skel
807 " " Skel
808 " " Skel
809 " " Skel

Old Mammon Mine, Pinal Co., Arizona

31 March

810 Macrotus californicus ♀ MT Skel
811 " " ♀ M Skel embr.
812 " " ♀ M Skel
813 " " ♂ M Skel

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Del Puerto Canyon, Co., Calif.
3 July

815	Lasiurus cinereus	♂	
816	Lasiurus cinereus	♂	BI
817	Antrozous pallidus	♀	BI
818	" "	♀	BI
819	" "	♂ juv.	BI
820	Eptesicus fuscus	♀	BI
821	" "	♂	BI
822	" "	♀	BI
823	" "	♂	BI
824	" "	♂	BI
825	" "	♂	BI
826	" "	♂	BI
827	" "	♂	BI
828	Pipistrellus hesperus	♀	
829	" "	♀	
830	" "	♂	
831	" "	♂	
832	Tadarida brasiliensis	♂	

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Costa Rica

Hac. "La Pacifica", Rio Corobici, Prov. Guanacaste, Costa Rica

4 Aug.

833	Pteronotus davyi	♀		Sk.	
834	Glossophaga commissarisi	♀		Sk	
835	Desmodus rotundus	♀		TAl	Bl.
836	"	"	♂	TAl	
837	"	"	♂	TAl	
838	"	"	♂	TAl	
839	"	"	♂	(to Costa Rica) TAl	
840	"	"	♂	TAl	
841	Sturnira lilium	♀		TAl	
842	"	"	♀	TAl	
843	Artibeus jamaicensis			TAl	Bl 1
844	"	"		TAl	
845	"	"		TAl	Bl 2
846	"	"		TAl	
847	"	"			
848	Carollia	♀ w/ yg.		TAl	Bl
849	"	♀ yg lower sac		TAl	
850	"	♂		TAl	
851	"	♀		TAl	

Venado Cave, 340m., 2 Km. W Venado, Alajuela Prov.
24 June · Coll. R Koford who has field note

852	Lonchophylla		TAl

(frozen till 5 Aug).

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Higueron

Rio Higaron, 10 Km SE Cañas, Guanacaste Prov., Costa Rica

5 Aug.

853	Noctilio leporinus ♂	TAL	BL
854	Eptesicus furinalis ♀	TAL	
855	Sturnira lilium	TAL	
856	Glossophaga	TAL	
857	"	TAL	
858	Carollia	TAL	BL
859	"	TAL	PSI-GD
860	"	TAL	
861	"	TAL	
862	"	TAL	
863	~~Artibeus~~ born in bag	TAL	
864	" yg born in bag labelled 864A	TAL	
865	Artibeus	TAL	
866	"	TAL	
867	"	TAL	
868	"	TAL	
869	"	TAL	
870	"	TAL	
871	"	TAL	
872	"	TAL	
873	"	TAL	
874	"	TAL	

Rio Abangaren, Prov. Guanacaste, Costa Rica

6 Aug

875	Glossophaga	TAl
876	Sturnira lilium	TAl
877	" "	TAl
878	" "	TAl
879	" "	TAl
880	" "	TAl
881	Artibeus	TAl
882	"	TAl
883	"	TAl
884	"	TAl
885	"	TAl
886	"	TAl
887	"	TAl
888	"	TAl
889	"	TAl
890	"	TAl
891	"	TAl
892	"	TAl
893	"	TAl
894	"	TAl
895	"	TAl
896	Phyllostomus discolor ♀	TAl

Rio Abangaren, Prov. Guanacaste, Costa Rica

7 Aug.

Given to Costa Rica

897	Artibeus jamaicensis ♂ 78-0-12-18-FA57 = 40	Al
898	Sturnira lilium ♂ 64-0-9-13-FA38 = 20	Al

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Hacienda "La Pacifica", Guanacaste Prov. Costa Rica

7 Aug.

899 Micronycteris — Al.
died in Captivity

2 Km S Restaurante "La Georgina", Prov. San José, 3100 m.

9 Aug

900 Sturnira ludovici — TAl Bl
901 " " — TAl
902 " " — TAl
903 " " — TAl
904 " " — TAl
905 " " ♂ 68-0-10-15-FA44 — TAl

Culvert, 17.5 Km SE San Isidro de General (by road),
San José Prov., Costa Rica

10 Aug.

906 Carollia — TAl
907 — TAl
908 — TAl
909 — TAl
910 — TAl
911 — TAl
912 — TAl
913 — TAl
914 — TAl
915 — TAl
916 — TAl

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1978

10 Aug, (cont'd.)

917	Carollia	TAP
918		TAP
919		TAP
920		TAP
921		TAP
922		TAP
923		TAP
924		TAP
925		TAP
926		TAP
927		TAP
928		TAP
929		TAP
930		TAP
931		TAP
932		TAP
933		TAP
934		TAP
935		TAP
936		TAP
937		TAP
938		TAP
939		TAP
940		TAP
941		TAP
942		TAP
943		TAP

D.O. Strang
1978

10 Aug (cont'd.)

944 Glossoplaga TAl
945 " TAl
946 " TAl
947 " TAl

Culvert, 17.5 kms San Isidro de General (by road)
Prov. San José, Costa Rica
11 Aug.

~~Carollia~~

948 Glossoplaga ♂ Gmen to Costa Rica TAl
949 "
950 Carollia
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965

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1978

11 Aug (cont'd.)

Al

966
967
968
969
970
971
972
973
974
975
976
977
978
979
980 Glossopteris Seedcase
981
982
983
984
985
986
987
988
989
990
991
992

D.O. Stanley

1978

11 Aug (Cont'd.)

993 Al
994 ↓

Finca "Tienda Santo" 17.5 Km. S San Isidro de General, San Jose Prov., Costa Rica

11 Aug.

995 carollia Al
996
997
998
999 ♀ Given to Costa Rica
1000
1001
1002
1003
1004 Carollia castanea ♂
1005
1006
1007
1008
1009 Carollia castanea ♂
1010
1011 Carollia castanea ♀ nov.

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1978

10.8 km N Villa Neily, Prov. Puntarenas, C.R.
13 Aug.

1012	Thyroptera tricolor	♀		TAL
1013		~~♀~~		TAL
1014		♀	70-26-Z-12-FA36	TAL

"La Georgina", San Jose Prov., Costa Rica
14 Aug.

1015	myotis? Eptesicus	♀	Given to Costa Rica	TAL
1016	~~Eptesicus~~ myotis oxyotus gardneri	♂		TAL
1017	Sturnira ludovici			TAL
1018	"	"		TAL
1019	"	"		TAL
1020	"	"		TAL
1021	"	" ?		TAL
1022	"	"		TAL
1023	"	"		TAL
1024	"	"		TAL
1025	"	"		TAL
1026	"	" ?		TAL
1027	"	"		TAL

~~#~~Tienda de Alfredo Yee, Limon, Prov. Limón, Costa Rica
17 Aug.

1028	Molossus			TAL
1029	"			TAL
1030	"			TAL
1031	"			TAL

1032	Molossus			TAl
1033	"			TAl
1034	"	Geven to Costa Rica		TAl

Culvert, 12 Km W, 2.5+ Km S (on Rio Blanco Rd.) Limón, Prov. Limón, Costa Rica

17 Aug.

1035	Glossophaga			TAl
1036	"			TAl
1037	Micronycteris	megalotis	♀	TAl
1038	"	"	♂ juv. Geven to Costa Rica	TAl
1039	Macrophyllum	macrophyllum	♀ Preg	TAl
1040	"	"	♂ juv.	TAl
1041	"	"	♀	TAl
1042	"	"	♀ Preg.	TAl
1043	"	"	♀ Preg.	TAl
1044	"	"	♀	TAl
1045	"	"	♂	TAl
1046	"	"	♀ Preg.	TAl
1047	"	"	♀	TAl
1048	"	"	♂ juv.	TAl
1049	"	"	♀ Preg	TAl
1050	"	"	♂	TAl
1051	"	"	♀ Preg	TAl
1052	"	"	♂	TAl
1053	"	"	♂ 90-36-11-16-FA36 ≡ 7.5	TAl

Geven to Costa Rica

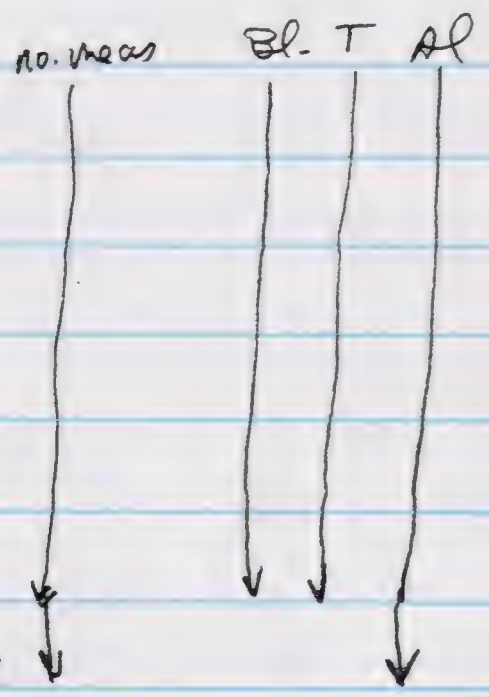
Straney
1978

Mountaineer Mine

5.6 mi S, 0.3 mi E Vidal (San Bernardino Co.), Riverside Co., Calif.

19 Dec.

1062	Macrotus californicus	♀	n. pr.	
1063	"	"	♀	n. pr.
1064	"	"	♀	n. pr.
1065	"	"	♀	n. pr.
1066	"	"	♀	n. pr.
1067	"	"	♂	full stomach
1068	"	"	♂	full stomach
1069	"	"	♀	not well preserved



Highway bridge, 1½ mi S Palo Verde on Hwy 78, Imperial Co., Calif.

28 March (C. Markmann, coll.).

1070	Macrotus californicus	♂		
1071	"	"	♂	
1072	"	"	♀	pr.

Stracey, D.O.

Journal

1976 - 1978

Arizona
Calif.
SE USA

Mexico
Guatemala
Costa Rica

R.O. Straney
R76

5 June

Herb Martyr Dam, Chiricahua Mts., Cochise Co., Arizona

Larry Riggs, Dave Krohne & Lawrence Frank and I arrived in Cave Creek Canyon in the Chiricahua's at about 5 pm, having driven from Lubbock and the mammal meetings via the Sacramento Mts and White Sands. After checking in at the AMNH field station, we drove up to Herb Martyr Dam ~2-3 miles NW up the canyon. Mixed pine-oak-yucca "forest" which reminds me very much of the sand hill scrub-oak-pine-palmetto forests in the southeast. We waited until the picknickers left before setting up the net with poles tied to the railings of the fence on the dam. 1st bats seen ~8:30 pm, a few minutes before the net was finally up. Captured 2 Eptesicus fairly soon, then a fall off in activity. Larry and I took another 36' net on the 2 remaining poles, stretched it across the water, and tried slowly walking it down towards the dam, with no effect. Finally, at 10:15 pm, the last bat, Lasiurus cinereus, was caught. The Lasiurus was quite vocal, hissing & spitting to beat the band. Walking near the bag he was in would set him off

D.O. Stramley

1976

June, cont'd. and he sounded exactly like a rattlesnake. Holding him behind the net was of no use in attracting others in. At 11 pm I joined the other three in sleep and saw what was probably a kit fox on the way back to the campsite.

June Got up at 5:45 AM on the 26th to check the net and, as the sun came up, saw nothing else in it — fortunately the birds weren't active yet. We left at around 11 AM after Lawrence and I processed specimens. He plans to put up the bat skins. He caught three Peromyscus (crinitus??) and I obtained tissues from one — #LGF 86, a ♀. Went to Rucker Canyon via Douglas, Az. and hiked up to Patton's Locality there, 3 mi up trail #228, but obviously did not find it. Tried to find a cattle tank to net, but an owner told us none had water in them. After fixing a hole in the gas tank with soap, we stopped at a farm pond in a cattle field in the desert on the road back to Douglas — a large pond impossible to mess and impossible to net with 2 sets of poles. We saw 4 or 5 bats flying but by 11:15 had caught nothing so pulled things down and

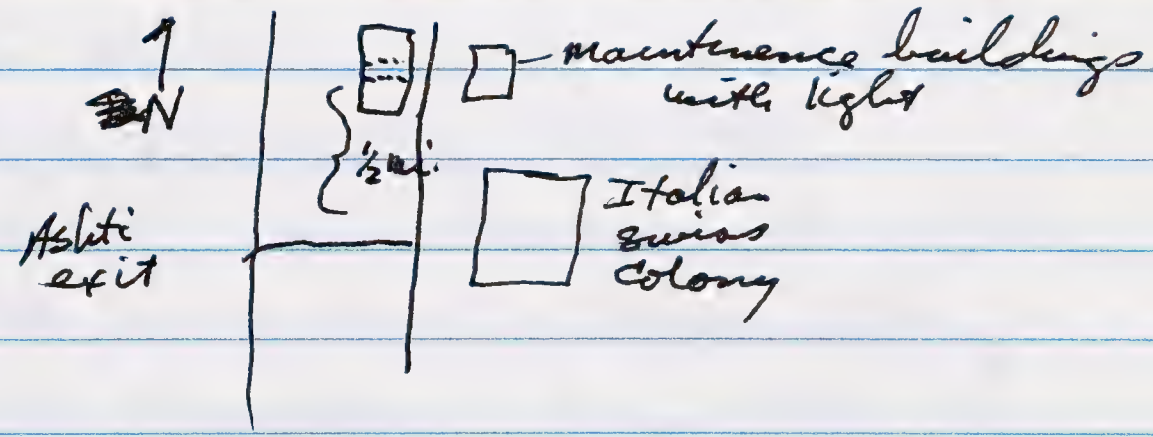
D. O. Straney

1976

June cont'd. went to Douglas for a shower and a motel room before the 18 hr. drive back to Berkeley via Tucson (2 hr stop at the Desert museum), Phoenix and Blythe.

Ashti, Sonoma Co., Calif.

July Carla Markman, her friend Seth, Dick Sage and I drove from Berkeley to Ashti and the Italian Swiss Colony winery ~~and~~ where Phil Leitner had told Carla would be good for Tadarida. We arrived at 8 pm and as there was still light, went up the road a ways to a nice restaurant. Nets were ups at 8:45 pm. The bats were roosting in the N ½ of the barn only



101

but most exited from the large doors in the middle, rather than from a large hay door in the upper level of the barn near the roost which opened to a tree. Nets were placed over the doors with nets and bats entered almost immediately.

3 July, cont'd. the east door caught most - the most activity in the NE corner of the barn near the light across the street and near water. 45 Tadarida ~~taken~~ (in Carla's catalogue) with 8 Myotis yumanensis and one Antrozous pallidus (with 2 strebilids). the yumenensis appeared after the 1st pulse of activity at the start of the 2nd ~ 9:30 PM. the Antrozous was taken ~~last~~ late ~ 10 pm. Several dead Antrozous on the floor, one banded. A Tadarida also banded ~~but~~ was caught but let go. Finally called it quits at ~ 10:30 pm after collecting Carla's first Tadarida sample and a beginning on my Myotis series.

Aetna Springs, Napa Co., Calif

10 July Sam McLeod, Carla Markman, M. Walter and I off to Sam's roost in Pope valley. This is in an abandoned barn E of the Golf course across the street (N) from the Aetna Springs resort buildings where Pearson studied Antrozous. We tried to find the mines at the end of the Aetna Springs road but, after climbing into the mts. for about 5 miles, things got rougher than I was willing to take my newly fixed

10 July cont'd. car over and turned back. The drive is beutiful, but a Jeep would be more appropriate. Sam has studied the barn roost before and has connections with the golf course manager. Upon entering the ♯ NW end of the barn we opened a sign on the side of the wall and collected 1 ♂ Myotis thysanodes and 2 M. yumanensis. Several bats roosting around the grain funnel (?) on the ground floor — all Myotis. The upstairs is the roost proper and had normal densities (Sam's description). We picked up dead Myotis from the floor, all young of evenly distributed size range which suggests that the mortality this year is normal (Sam again) and not overly affected by the lack of rain (the pond we saw was very low for July). We netted several bats from the rafters, including a ♀ carrying her young (#DOS-64) which unfortunately became seperated. All exits were blocked and a net was nailed up in the stair well. Phenomenal activity of bats at sunset and none left except to be caught in

10 July cont'd. our net. We got only early leaving individuals. Suggest looking at a time series in several roosts. Very few bats had left by the time we had our sample, ~10:30 pm, and took down the nets. Got 3 Myotis californicus and a total of 48 M. yumanensis in addition to 1 M. thysanodes and 3 T. brasiliensis (in Carla's catalouge). Few seemed to be leaving as we left, although activity in the barn was high - possibly correlated with the full moon that was out?

Eastern U.S.

18 July Sam McLeod and Jim my car, with Carla Markman and M. Walker in Carla's, left Berkeley at 12 pM (actually the 19th) after frantic packing, etc. I had finished the 1st draft of the phyllostomatid genetics paper at 6 PM, so we were somewhat delayed. Fairly easy drive until Blythe, CA. when Carla gave out and I had to drive from Indio to Benson, Az. - a long hitch for me. Finally arrived in the Chiricahuas at 11:45 pm Az time (1035.2 mi.). Set a

19 July net at John Hands Lake in Cave Creek

19 July — Canyon, on the same road to Herb Martyr but lower in elevation. It had rained earlier and was lightning all night. Finally to bed by 1:30 ~~PM~~ AM.

20 July — No bats captured, but several moths that Carla says were Cercropia (I did not see them). Left at ~ 10:30 AM, after giving Carla a rundown of possible collecting localities. They will spend a week there collecting — Tadarida and Molossids for Carla, everything else for me.

22 July — Arrived at Port Charlotte, Fla at 3 AM this morning — 3135 mi from Berkeley in 63.5 hrs. We are staying with Sam's parents for a few days of recovery and collecting. Probably will collect few bats but some herps. That was one long drive.

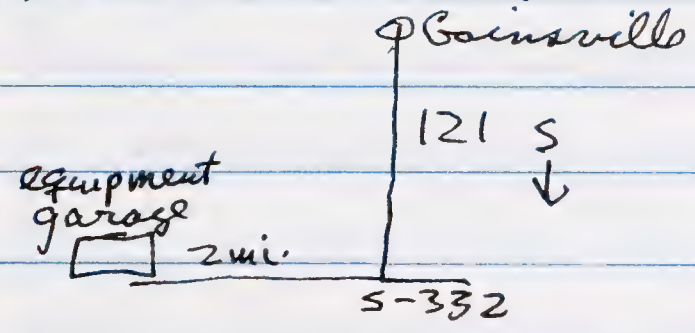
23 July — Drove to Sanibel and Captiva Islands off of Ft. Myeres to look for headed false killer ~~wa~~ whales that were on the news yesterday. Did not see the whales which we were told had been taken away. Saw many shorebirds that we could not identify. Brown pelicans in abundance. We watched the

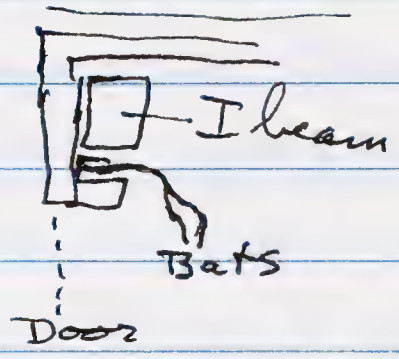
23 July cont'd. later feeding. They rose ~12 ft in the air, soared down over a school of fish and dove in head first. Sam says they use the gular pld to gape and suck fish, which may explain why they seem to loose all control over their body which flops into the water. Can't do too many things at once. It probably doesn't matter if they disperse the school after they have sucked in a beak-full of fish.

28 July Arrived in Gainsville last PM after a restful few days in Port Charlotte. Met with Steve Humphrey who was very helpful in arranging for us to get what we want from Florida – Myotis austroriparius, Lasiurus (3 species) and Tadarida. He also had some Florida Public Health specimines which he had been sent for identification. We salvaged some of the less rotten of these for tissues but did not keep specimens. Only rabies negative bats were so salvaged. Included is one "family" of 3 juv L. borealis and the ♀ L. intermedius is not yellow, but rather Spanish-moss grey-green. Exact Localities can be obtained from Steve.

28 July, cont'd. Steve has arranged for his masters student, Terry L. Zinn to go in the field with us. Terry is working on food habits in Austroriparius as well as some bat impact work (Cross-Fla. Barge canal).

29 July Tonite went to Williston to collect Tadarida.





the roost, an active heavy equipment barn where Steve counted 1000 bats one night in May, 2 yrs. ago. Diagram above of where they roosted. The roof is flat and metal with wood struts. There were no Tadarida. Nets set in both doorways caught nothing and nothing was seen flying out.

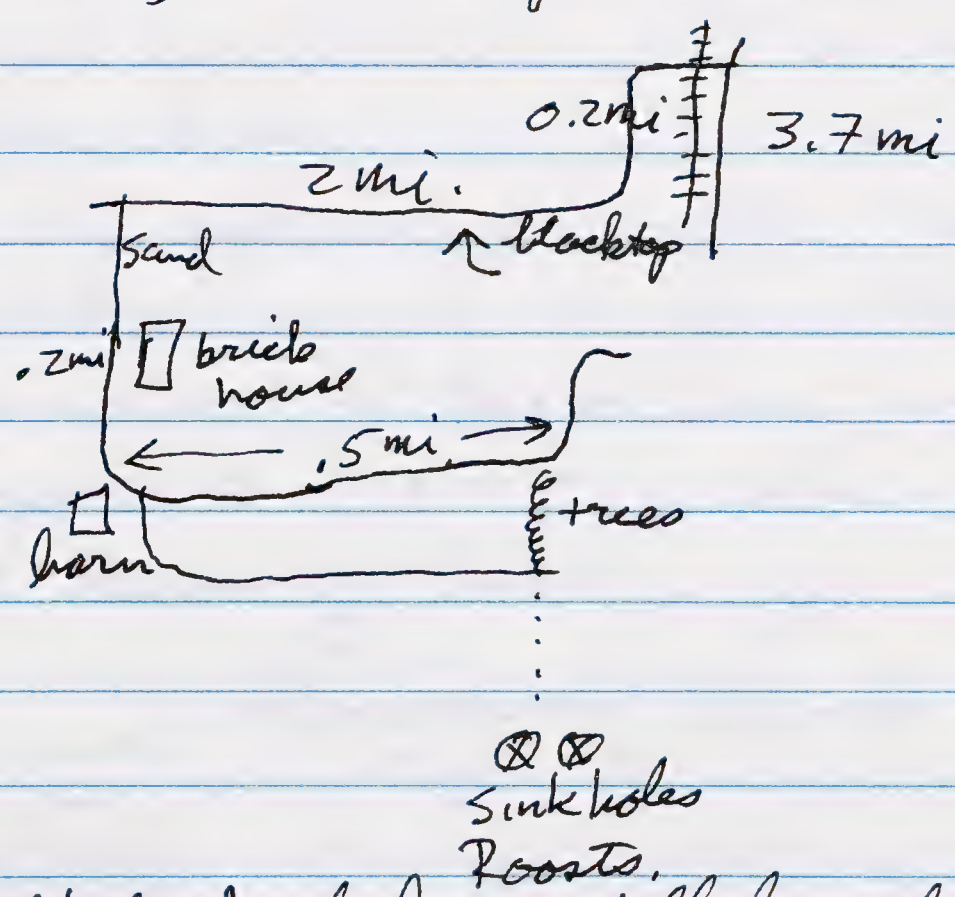
31 July Last night rained out. Tonite, Sam and I went to a cave in an abandoned quarry 2 mi S Orange Lake, Fla. One net set over mouth of cave and we waited armed with scoop nets. Nothing. One M. austroriparius seen at sunset but that was it. Terry went in and claimed the water was drained out and he saw 3 bats flying inside - not the hundreds usually seen there. Perhaps drop in water levels

D.O. Stransey

1976

31 July — due to nearby quarrying has let raccoons, etc in to harass the bats.
Terry & Gary Foster went to another cave, again an old good roost but this one had filled with water. Again a zero nite.

1 August — Sam and I went to a "guarenteed roost" of several thousand M. austroriparius. this, a cave in Suwanee Co. where histoplasmosis was confirmed after a church group using the field got sick.

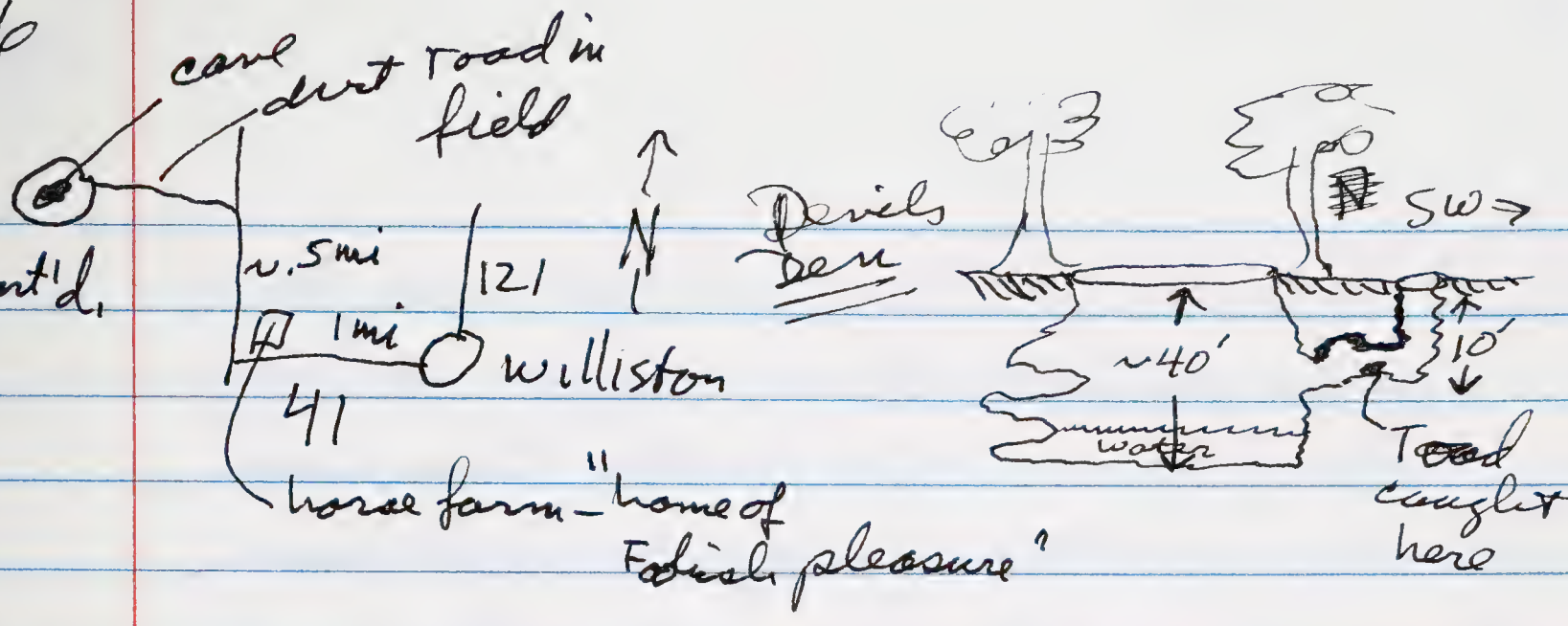


the sinkholes had been filled with trash.
No bats.

During the day Sam & I had gone to Devils den - a sinkhole in Williston. Heard squeaking and collected a Bufo within the cave.

O. Stransky

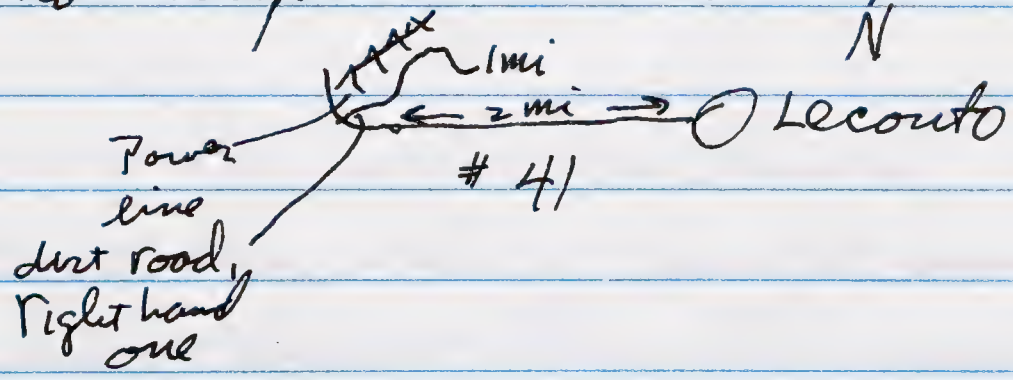
1976



1 Aug. cont'd.

2 Aug. Sam and I netted Devils Den, expecting M. austro. Got nothing. Terry and Gary went to net the river at Silver Springs, another good collecting site for Lasiurus and Pipistrellus, but they got rained out. Will we ever see any bats?

3 Aug. Terry has run out of roosts. Sam and I are following up on a lead from some cavers we met at Devils Den and have gone to Leconte in Citrus Co. to find Maynards Cave.



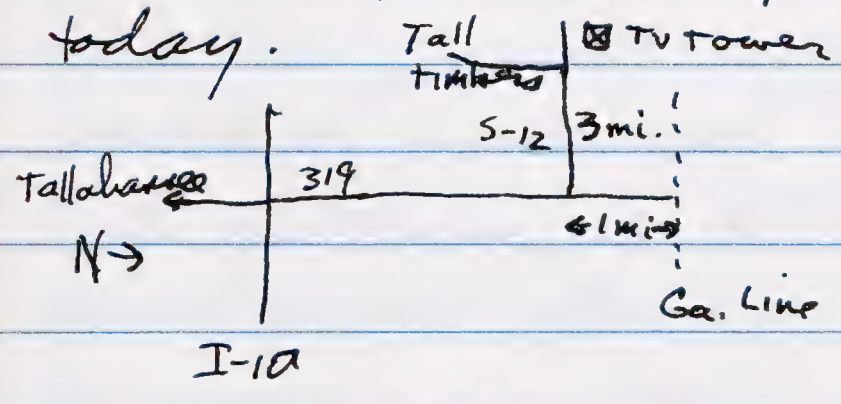
Followed directions from people at the Leconte General Store — all there is to the town. Unfortunately Maynard does not let people on his property or into his cave.

D.O. Stramey
1976

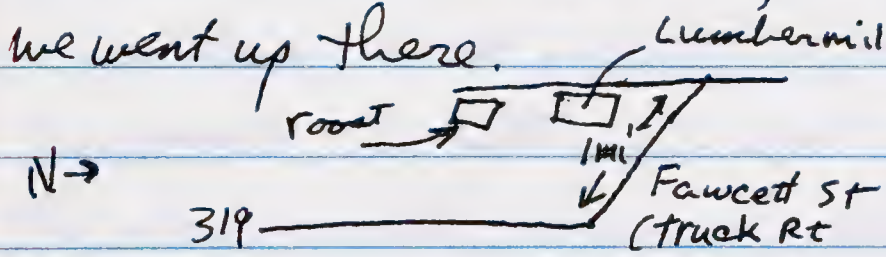
4 Aug.

Well, we've left Gainsville with no bats and one *Bufo*, quite disappointing. Terry will collect what I want and send them out after I write him directions for mailing them. I withhold comment on all of this.

Steve told us of Wilson Baker at Tall Timbers in Tallahassee, so I called him on Monday and set up to collect with him today.



His roost is in Thomasville, Ga. After chatting awhile we went up there.



It is in an old Swift-Agri Chemical Fertilizer plant — 2 story barn of fine old wood construction the bats roost on the SW side of the 1st floor. In one scoop net, we got *M. austro* - 4 Ad ♂, 23 Ad ♀, 40 juv ♂, 40 juv ♀. Did not keep all (no Ad ♂) as Wilson is working the roost. He has several yrs good data on the roost with

O. Straney

1976

1 Aug., cont'd. similar ratios. Tadarida in small numbers mixed in, behind the roof beams - we could only get 2 but others were there. Bats at last! Unfortunately, I got stung by a wasps in the process and my stomach is swelling in reaction — didn't think I was allergic. Also bit by a Myotis that drew a drop of blood - must watch this.

6 Aug. Arrived at Savannah River Ecology Lab yesterday at 4 PM, after a pleasant drive from Tifton, Ga. where we prepared the specimines. SREL is devestated by a tradgedy which occured on the 4th, resulting in the death of Sue Duvall and Lee Ames, the latter an old freind. Otherwise the place is little changed, although there are many new people.

Went out tonite with J.B. Gentry to Jackson landing, the "port" of Jackson on the Savannah River. He, J and M.J. O'Farrell had shot L. seminolis here in good numbers (5-10) a year or so erlier. Bats flying ~ ½ hr before sunset when J.B. shot the 1st and only bat we got, the ~5 others were seen

12 Aug. Have spent the last few days working on a revision of the phyllostomatid bat chapter and settled on Science as the place for the deer blood paper. Tonite was the 1st time I could get in the field due to badging mess-ups. Mike Manlove and I went to Par Pond to shoot over the Cold Dam, where Mike Smith told us we could find bats easily, if the shot ones weren't eaten by the bass. Never got a chance to determine if bass will eat bats as the gun jammed after the 1st shot. Bats appeared at sunset and we saw ~10 before heading back in extremely bad humor. One may have been Eptesicus. As there was no hope of getting another gun, we ~~to~~ went road cruising for herps. All were obtained along pine plantations, the Scarlet snake on Rd. 7 near Par, the Scaphiopus along a 2.5 mi stretch of Rd 2 from the junction of Rd A. Will be leaving tomorrow nite for Washington DC by plane to meet Sam ~~who~~ who has been at the Smithsonian looking at fossils. Hope Memphis will get us some bats !!!!

D.O. Stanley

1976

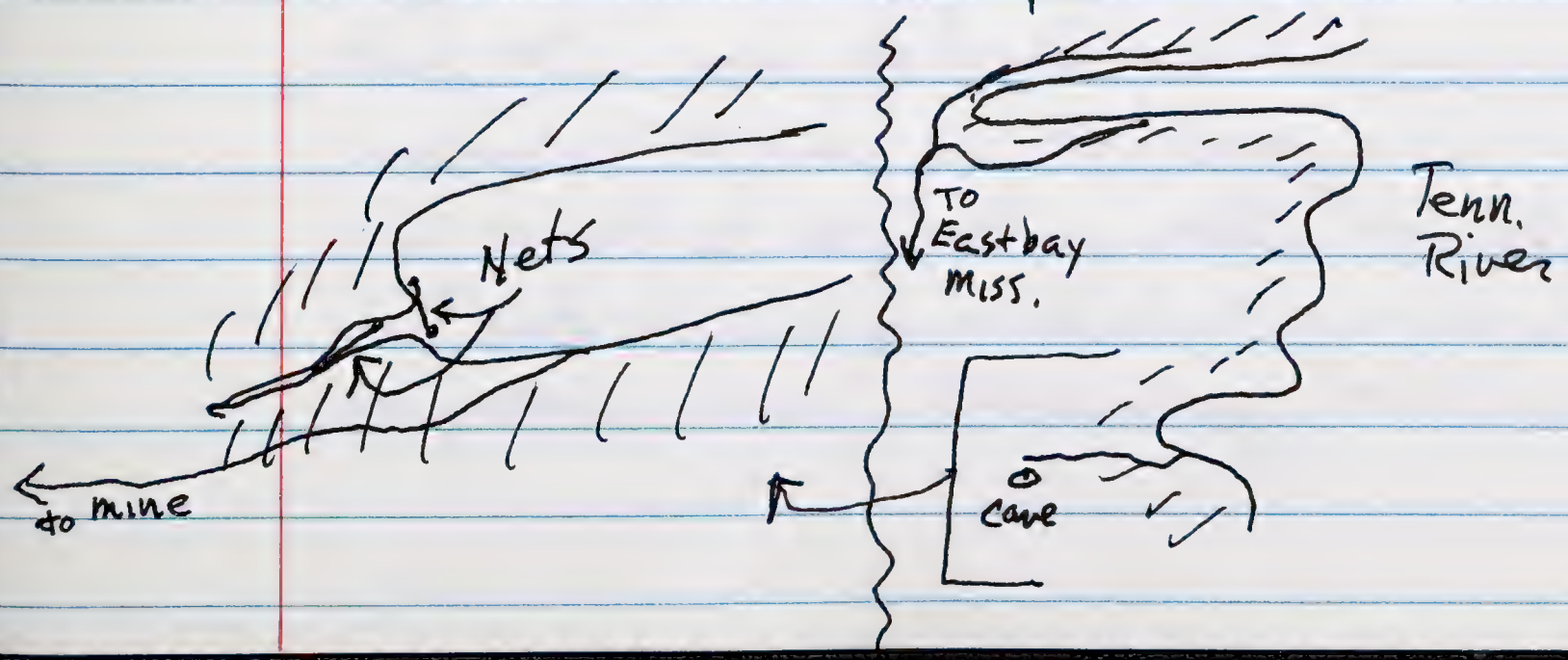
17 Aug. Arrived in Memphis last PM at ~3:30. Could not find the University by 5 so got a motel for the nite. Finally contacted Michael L. Kennedy at Memphis State this morning. Mike is a student of Schnells at Oklahoma but is now doing some acrilimide electrophoresis of local Peromyscus. He told us about the localities for M. austroriparius which are several - streams 20'-60' wide in dense forest. No cave colonies known. He will not be able to go with us as he leaves tomorrow for the Smokies to collect in some lines of can traps they have there.

We went in Mike's University vehicle to the Tennessee River for a chalk mine where he has collected M. austro. before. Had to draw a boat also, as it can only be reached by water. Mike's 2 students (Mike and Phyllis) also came along. About 3 mi. from the landing (at East bay Miss.), the boat came unlatched and flipped over doing minor damage but wreaking the distributor coil. An automotive coil (12V) did the trick and we were on the river by 6:00 PM. The mine is reached in the 1st major cove up river (S) of East bay landing by a path of about 1 mi in length. The habitat is deciduous and this may

D.O. Strauss
1976

17 Aug (cont'd.) be one of the few areas of the South without extensive pine plantations. The terrain is hilly unlike much of the rest of Mississippi. The mine is abandoned and, behind an entrance ~ 4' in diameter, turns into a series of galleries that follow a large chalk vein in the hills. We searched the entire mine and found only 1 bat a Q Pipistrellus (!) on the ceiling. The cave was very cool but not damp (no water) and the pipistrelle was in torpor. In one gallery, I caught some orange eye-shine and, upon investigating, found a ♀ Peromyscus gossypinus (pregnant) in a nest in a hollow in the wall at chest level. Several other nests were seen in the cave system, but no other mice.

Placed one net over the entrance and 2 others at the head of the cove:



D. Stanley

1976

17 Aug. (cont'd.) No bats were collected in the net by the cave. After Nets up at ~7:30, we went back in the woods and built a fire for a sumptuous dinner of hot dogs. 1st bat caught ~8:10 PM., a ♂ Lasiurus borealis. 7 more caught before nets taken down ~11:15 PM. The net in the inlet did better in catching bats, and after dusk, most bats seen were flying inland at the head of this inlet where there was no underbrush but still respectable canopy. Finally back in Memphis by 3 AM. We are staying at Mikes place while he is gone to the Smokies.

18 Aug. A wasted day. Didn't wake up until 2 PM and it was 4 by the time we had finally replaced a headlight in the car which was broken (both beams). Processed bats, but this was delayed as the Lasiurus refused to die in the freezer. Far too late to get to collecting site tonite, so will take it easy and rest up for the long drive home, beginning on the 20th.

O. Stanley
1976

19 Aug. Went this afternoon to try to net bats along the Forked Deer River 70 miles NE of Memphis. This is good territory for austros according to Mike Kennedy. At the 1st place where the road crossed the S fork we got out and spent 1½ hrs looking for a good place to stretch some nets. the best place according to mike is in fairly dense woods which we weren't able to find. The river is ~60' wide here and swift so a bad place for us to set without a boat. A small inflatable one would be handy to have. Did get a small Bufo here tho.

Went off at ~7 pm to check out another place W of Belle where the road crosses again, but a short ways down the road the left rear tire blew out and had to be changed. Cursing the loss of time and watching the sun go down, we got back in and the battery was dead. Hitchhiked to a gas station and got someone to come out and start the car. By then it was 9:15 pm and, in exasperation,

D.O. Straney
1976

decided to go back to Memphis.
The spare was not in good shape and
neither was the other rear tire so
we drove at 40 mph all the way back.
Very frustrating last day of collecting.

20 Aug.

This AM went to Sears and got
two new tires ($130+). The car rides
much better now that all the tires are
new, in alignment and balanced,
but part of this is psychological.
Last nite on the way to the river the
car was shaking badly and we
now attribute this to the tire that
blew.

Left Memphis at 12:15 PM. In
Arkansas, was surprised to see that
the Mississippi floodplain is almost 45 mi
wide. In Missouri between Hannibal and
Alton it is only 7. Took a 2½ hr
detour through the Ozarks which
was very interesting but a little long.
We are taking I-40 west.

22 Aug. Arrived in Berkeley this AM at 3:45—
a 41.5 hr. drive. No problems. Very
nice to be home.

D.O. Stranley,

1976

26 Aug. Aetna Springs, Napa Co., Calif.

Carla Markman, Sam McLeod and Sam Sweet and I are off to resample Sam's roost which we last visited on 10 July. We brought a ladder which has made it easier to get to the bats at the roof of the barn. Arrived ~5:30 PM. No bats behind 1st floor sign as this was loose from the wall. None anywhere on 1st floor. The population in the attic is somewhat reduced but Sam found only 3 dead bats (one was dying, a Tadarida and may be rabid). (It wasn't) After climbing up to the bats, it was apparent that many more were secreted between the metal roof flashings and the wooden shingles above the roof beam. Sam Sweet used his slingshot with considerable success to pick off Tadarida beyond easy reach. Collected 8 Tadarida (in Carla's catalogue) and 20 M. yumanensis before the bats were too disturbed. However, we had stirred things up considerably and, as we left, there were 10-20 bats in the grain funnel on the 1st floor. Met two of the people who run the place as we were

D. O. Straney
1976

26 Aug (Cont'd) leaving - young and reportedly members of Moon's Church which now owns the property. They were a little amazed that we would be interested in bats and were unaware that they had a roost in the barn, although they had seen many flying in the vacinity. Also wanted to know if bats had commercial value. We told them about the beneficial effects of guano in hopes that they would not discourage the roost. En the way home, Carla's Car had problems and we spent 2hrs. in the A&W parking lot in St. Helena fixing her headlight switch. Finally in Berkeley by 11:30 pm.

Las Vegas Vacinity, Clark Co., Nevada

13 Sept Left Berkeley this AM (8:30; 37315) for Las Vegas with Sam Sweet and Carla Marksman. We will meet M. J. O'Farrell who knows some good bat localities in the area. Driving by way of Reno which we got to at 12 noon. Stopped at a marsh N of Fallon on US 95 where Sam & Carla collected Rana Pipiens - these are different from those of New England. having vrdescent (3) spots on the back and

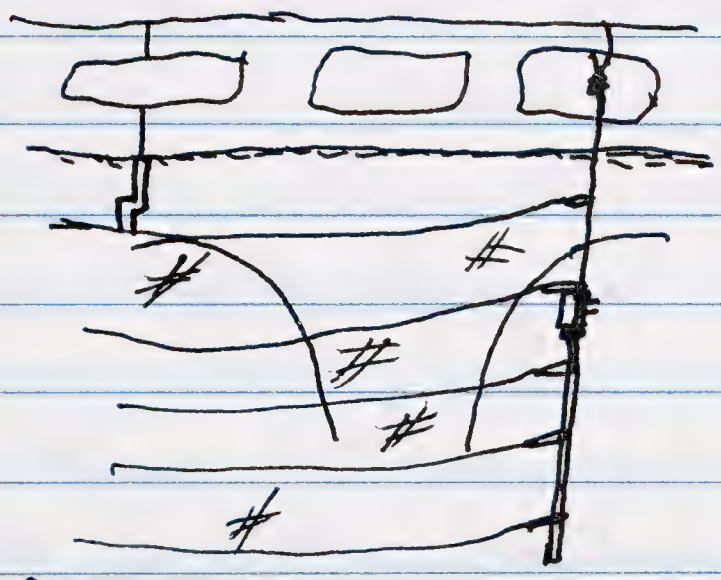
Sept. (cont'd.) an azure wash on the sides of the belly. Went further down the road and, at a spot overlooking the gunnery range, Sam collected 2 Uta. Dinner in Tonopah and we pulled off to sleep along the Amargosa River bed in creosote desert. Lay under the stars talking for awhile. Finally to sleep by 11 PM.

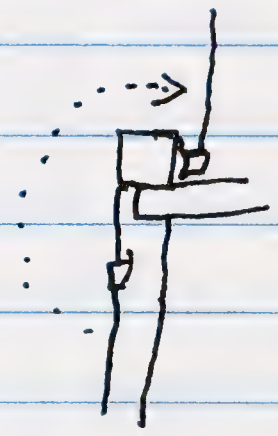
14 Sept. Up at 8 AM to a fine cool morning. Temperatures yesterday were very cool but today threatens to be a scorcher. Not much sleep last nite as I threw my back out in Berkeley loading the car and the ground was not too good for it. In Las Vegas by 10 AM for Breakfast at McDonalds, then over to the place Mike is working to make plans. He is working at a tuna place and seems much frustrated by it. After much futzing around we have decided on a plan - Tadarida tonite and another place tomorrow. Spent the afternoon (1-3:30 PM) in Red Rock Canyon W of town on Charelston St. collecting herps. Sam got many. Also found a dead grey fox. Some of the cracks and crannies in this red sandstone showed what looked like very

D. D. Straney
1976

14 Sept. (cont'd) old guano. Mike says there are many bats in here but are hard to get. (Mike also has some good Lasionycteris localities, good in the spring).

Went out to Logandale to work a roost under a bridge — Out I-15 to overton-Logandale turnoff. The bridge is on the W edge of Logandale on SR-12 and spans the Muddy river. There are 2 expansion joint in the bridge where Tadarida roosts. Hung the nets as follows over the joint:





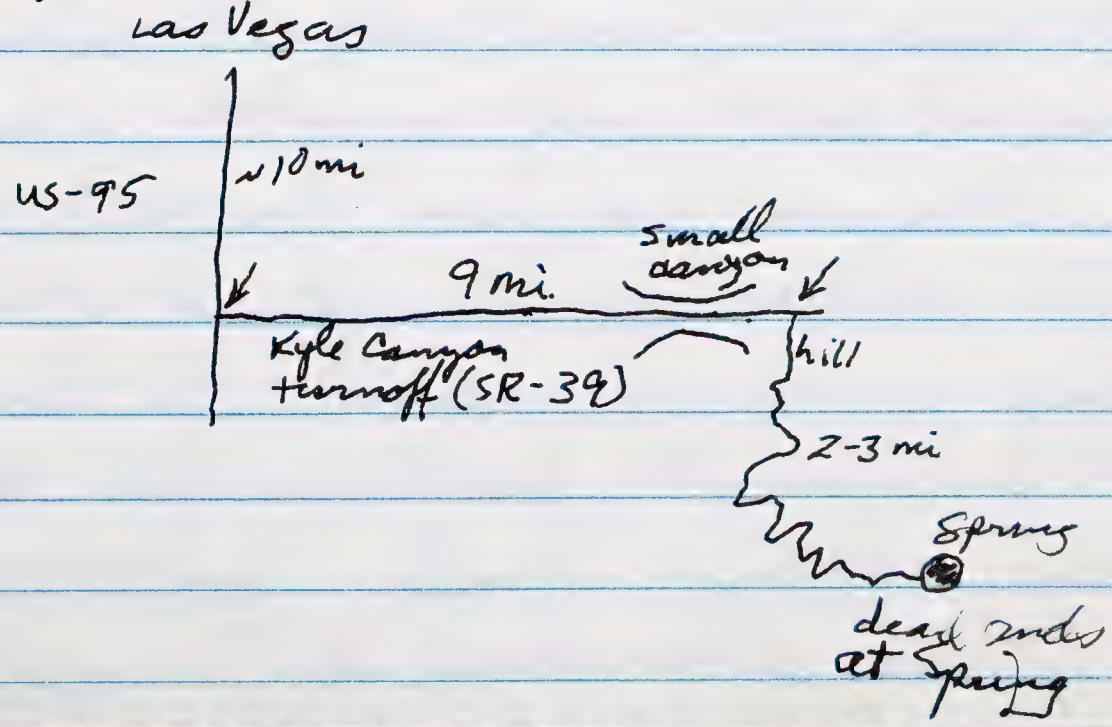
this worked remarkably well and was easy to raise up and remove animals, although we did this by moving the net to the milk warehouse parking lot to the N because of traffic on the bridge. Nets up by 7 - sunset shortly thereafter. Vespertilionids seen in large numbers foraging near the large trees in the area which Sam tried to get by slingshot with no luck. Did not have

14 Sept. (~~#~~Cont'd.) poles enough to set a net. At 7:45 PM saw a bird in the net - some finch - and removed it and our ~~1st~~ bat, a Myotis. It had been dark for ~ 40 min but no activity in the stream or expansion joints. We could not see bats in these joints when backlighted so went road cruising at 8 PM. When we returned at ~~#~~ 10 PM there were 20 Tadarida ~~&~~ in the nets. Hauled in one with the most (~17) and spent ~30 min taking them out. Had to sacrifice the 2 nets as the bats were badly tangled. By the time we got these out, ~10 more had entered the remaining net — clearly not from the joint. These bats were probably foraging in the creek which was insect laden and filled with willows & tamarasics. The colony appears to be either breaking up or disbanded with the bats returning to feed. Mike claimed there were "20,000 bats" in the joints but this is no longer the case. Left in good spirits (I had been very frustrated during the road cruising) and went to Overton beach to camp. This was a truly dreadful spot with many RV campers, so Sam & Carla had a midnite swim in Lake Mead. Went back to the Valley of Fire to spend the nite.

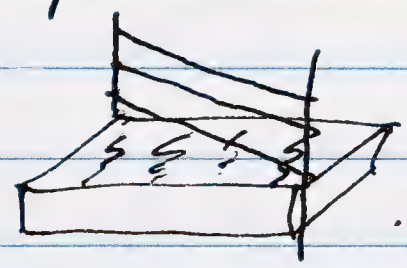
D.O. Straney
1976

15 Sept. Up at 7:30 AM to beautiful surroundings. To Moapa for gas and breakfast. Stopped in to see Mike to make arrangements for this evening. Then back to Red Rock Canyon to process bats. This time went up to Willow Spring which is in the NW part of the valley. This is an old Indian campground (Piute and Anasazi) with mescal pits and pictographs still evident. Pinyon pine habitat. Processed our bats in this pleasant area and then attempted to set up some nets to leave there while we went elsewhere. We could not find a good set and, as time, wind, birds and tourists were against us we abandoned this plan and drove back to meet Mike.

Mike took us to Grapevine Spring in Kyle Canyon of the Spring Mts:



15 Sept. (Cont'd.) Saw 3 wild mustangs grazing in the small canyon before the turnoff of SR-39. This road to the spring is VERY ROUGH and could not take my Vega on it. Loaded everything into Mike's truck and bombed away. Arrived at the spring after dark and, finding we had left 2 sets of poles back with my car, set up one net!



Sam investigated the source of this creek in a small cave-like opening in the mountain looking for salamanders, but this had been much disturbed. Not many bats seen flying which puzzled Mike. He has seen excellent activity here in the past. It is probably due to the rain they have had in the past week, the cool temperatures and a strange year. Mike believes that the test site may have something to do with the decreased numbers, but I doubt it. In any event, we got 3 bats before closing the nets at 10:30 pm — 1 Pipistrellus, 1 Myotis californicus and 1 Myotis volans. Mike fortunately pointed out

15 Sept. (Cont'd.) on the volans, just how poor the key character was.

[Mike did mention that, when John Simmons was down ~3-4 weeks ago, the Loxandale Tadarida colony was at full strength, so apparently it has broken up. All that we collected appear to be young of the year.]

Left Mike at SR-39 at 11PM and drove up to Hill Top Camp Ground in Kyle canyon to sleep. Was very windy and very cold so decided to go back and sleep in the desert. This would be a very nice summer campground. On the way down the car began acting up - would not accept gas on acceleration and sputtered violently. Pulling off, we spent ~1.5 hrs searching in vain for the cause. It was not a blocked exhaust pipe and we decided it must be the carberator. Sacked out on the side of the road for a very uncomfortable night.

D. O. Straney
1976

16 Sept. Up at 8^AM, we limped back to Las Vegas to have the car fixed. All it was was a loose carberator which $5^- fixed. Breakfast and on the road by 10:30^AM. An uneventful trip home, this we saw a coyote at 1:30^PM ± 10 mi S of Tonopah wandering on the side of the road (sick?). Back at MVZ at 12:30^PM, very glad to be back.

Berkeley to San Gabriel mts, LA. Co., Calif

24 Nov. Left Berkeley at 5:45 AM w/ John Cadle and Peg Smith to collect Peromyscus californicus. Buttonwillow truck stops for lunch at 10:15 and L.A. city limits at 1^PM. Took Foothill Blvd. to Sunland, then Mt Gleason Rd. to Big Tujunga Canyon, looking for good chaparral. Finally found some along Rt. 2 = Angeles Crest Hwy and set 100 lg folding sherman from Switzer Plantation along the Natures Canteen Nature trail. I set 40 along the trail, John 30 below and Peg 30 above. Then went a few miles up the rd. to a lookout over Arroyo Seco with a sign talking about the dams. This

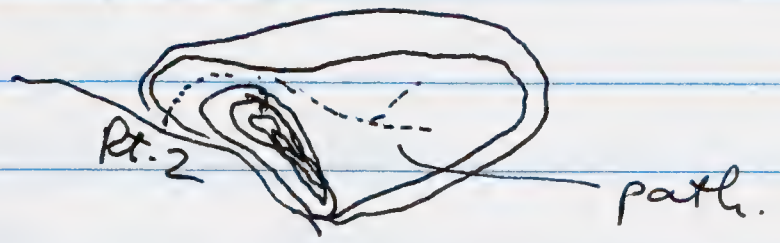
D. O. Strueby
1976

Notes on Expenses, Summer 1976:

Gas:

[redacted]	[redacted]
Berkeley to Chiricahua Mts	$ 30.77 [redacted]
to Houston tx	55.73
to Pensacola, Fla	81.03
to Port Charlotte, Fla	96.69 3135 mi. 63.5 hrs.
Port Charlotte, Fla to Aiken, SC	46.19
Aiken, SC to Washington, DC	29.76
Washington DC to Memphis	32.17
Memphis to Gallup, NM	32.42
Gallup to Needles, CA	12.33
Needles to Berkeley	16.00

24 Nov (cont'd) area is a small knoll:



We put 40 traps in here. Then on up the Rd. to the next good chaparral (that wasn't too steep) at Short Cut saddle. I set 20 down the S trail, Peg and John 29 along the North trail. This all by 5:15 PM. Then went down to Cañada for gas & dinner. Futzed along for a while, then came back up Rt 2 to Chilao Campground for dinner and bed. Saw 1 grey fox in hills above Pasadena, 1 wounded deer and 1 Perognathus along Rt. 2 on way back. To bed by ~10:30 PM.

25 Nov. up ~6:30. A cold morning. Checked traps and got:

Short Cut saddle:

of my 20: 2 P. truei
2 P. Californicus
1 P. eremicus?

} set in steep Chaparral grading to oaks. Much manzanita

total of 49 traps

6 P. Californicus (+1 dead)
5 P. truei (+1 dead)
2 P. eremicus (+1 dead)

D.O. Stanley

1976

25 Nov Contd. Saw a Sciurus griseus on rd as we drove to

Arroyo Seco overlook

Nothing in my traps

total of 40 traps: 3 P. californicus

1 P. truei

1 P. eremicus ?

1 Neotoma

The chaparral is rather sparse here.

Then on to:

Switzer Plantation

the best chaparral of all of my 40 along the exposed trail – 3. P. californicus

of the 100 traps:

7 P. californicus

1 P. truei

3 P. eremicus

6 Perognathus californicus

4 Neotoma

1 Brown towhee.

Also 1 Uta in a natural pitfall trap.

Done by 11 AM. Then lunch at Setzer Plantation, feeling rather pleased with our success: 40 mice/190 traps ~ 20% success – and of these, a full 16 P. californicus from the western San Gabriels.

D.O. Straney
1977

25 Nov
Cont'd.

Left the San Gabriels ~12 noon, then drove the unbelievably long distance (~1½ hrs.) to Lytle Canyon, ~~San Bernadino Mts~~ San Gabriel Mts, San Bernadino Co., Calif. This looked better on the maps. The canyon is steep and narrow, boardering a large wash, but is crawling with RV's and (worse) hunters. Set 90 traps 14.3 mi N of Fontana P.O. (by rd.) to the sounds of gunshots a few hundred yds. up the canyon. The chaparral here is fairly dense. Left these, then on to ~~the~~ the San Bernadino Mts on Rt 38. Set 30 small S/H traps in Yellow Pine/Juniper grass at ~5000' for Peromyscus boylei 12.1 mi E Mentone P.O. (by rd.), then back down the canyon to a spot 11.6 mi E Mentone P.O. (by rd.) and set 60 traps in almost pure chemise. Finally, 94 traps set 6.8 mi E Mentone P.O. (by rd.) in Artemisia chaparral on the river flats across the rd. from the Mill Creek Ranger Station. By then it was dark, so off to the Mill Creek Campgrd. for dinner and bed (by 8:30). It started out to be a warmer nite than last, but as the clouds receded, it chilled quickly.

D.O. Straney
1976

25 Nov. contd — Shortly after going to bed the wind came up making things worse, but this was gone by morning.

26 Nov. — Up at 6:30 Am to a chilly clear sky and mild winds. Checked traps:

12.1 mi E Metone

Nothing in my 10

total of 30: 1 P. maculatus (dead)
1 P. eremicus ?

No alticola, for which we were probably too low. The traps here were heavily frosted on the bottoms.

11.6 mi E Metone

My 20: 4 P. californicus
1 P. boylii ?
2 Neotoma

total of 10 P. californicus + 2 dead
1 P. boylii ?
2 Neotoma
2 Perognathus californicus

A fine locality!

6.8 mi E Metone

Something ran my trapline

D.O. Straney
1976

26 Nov cont'd. stealing most of the bait. But, got in my 32:

5 Neotoma (could be lepida)
1 P. maniculatus
1 Peromyscus sp? (eremicus ??)
1 bird

of 94 traps:

8 P. maniculatus
3 P. sp? (eremicus ??) +1 dead
12 Neotoma
5 Reithrodontomys megalotis
9 Dipodomys sp.
(5 toes, ventral stripe on tail virtually to tip, white stripe on haunch)

A very diverse habitat, but no P. calif. the P. sp? are getting to be a problem and there is no telling what they really are. I'm getting rusty on field IDing Peromyscus.

Lytle Creek Canyon 14.3 mi N Fontana

my 40: 1 P. californicus

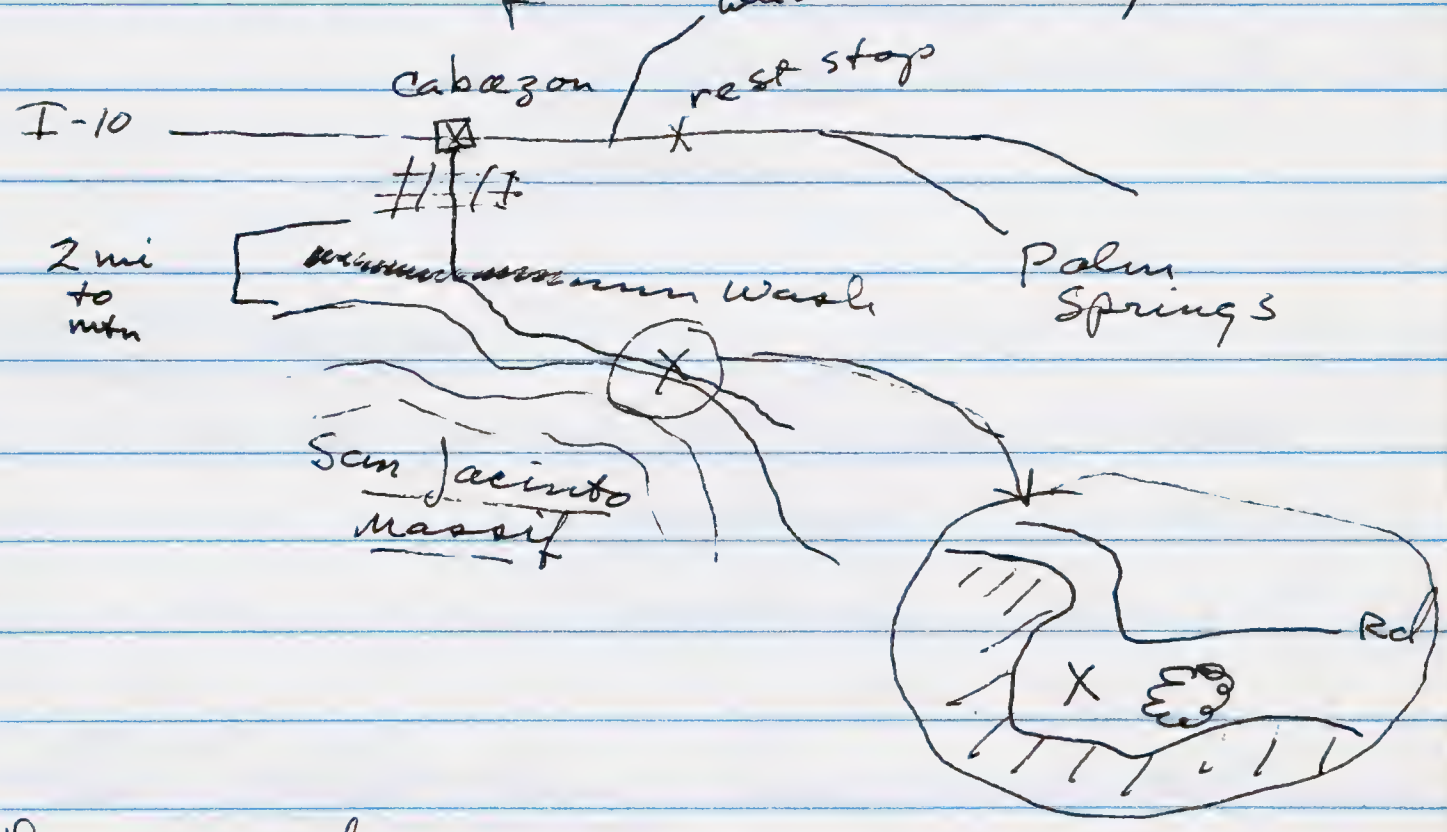
of 90 total: 4 P. californicus +1 dead
1 P. eremicus
4 Dipodomys sp.
(same as above)

Altogether, last nite was not sterling, but it will do.

D.O. Straney
1976

26 Nov Cont'd. Ate lunch at MacDonalds by I-15 in San Bernadino, then off to San Jacinto Mts, Riverside Co., Calif.. I threw my back out at Mill Creek so this was not overly comfortable. By now the wind was strong, blowing dust and campers on the Freeway. Fortunately it also blew away the smog, so we had a marvelous view of all of the Mts. Set our first traps (100) 10.5 mi SE Banning (by rd). The hills at this elevation are rolling and green with thick looking chaparral on a granite base - by boulders and the soil is thick pebbly fine weathered granite. A unique habitat. Then drove uphill, but a few tenths of a mile convinced us we were at the highest elevation for chaparral. We drove several miles anyway to get a good view (clear sky) and to look at the habitat. These Mts are gentler than the 1st 2 and the oak parkland and Pine forests are much thicker and more eastern in aspect. The wind, tho was fierce. Returned to 8.1 mi SE Banning where Peg and John set 40 traps. My back suffered some from the Mt. voodo. As it threatened

26 Nov. to be very cold and windy, we decided to get a motel in Banning for the nite and have a shower. Ate at the San Gorgonio Inn - price reflects bromass, but the food is good. We had planned to stay S of Cabazon at a place Sam Sweet told us of:



this is perhaps the best herping place in Calif., as it is the N most pt for many Southern animals, stoped by the San Gorgonio pass. Would have been nice, but the weather wasn't right.

27 Nov. Up at 6 am just as it was getting light. Grabbed some quick breakfast then out. The wind was extremely strong and as we climbed up into the mts it became bitter cold. Checked our traps:

D.O. Straney

1976

27 Nov 10.5 mi SE Banning

my 20: 1 Dipodomys (same as earlier)
1 P. maniculatus (dead)
1 P. californicus?

of 100:
14 P. californicus? + 1 dead
2 P. maniculatus + 1 dead
3 Dipodomys + 1 dead
1 Neotoma

8.1 mi SE Banning

of 40: 1 P. californicus + 1 dead
1 Dipodomys + 1 dead
2 Neotoma

The P. californicus here may be 2 things. Some are a little smaller, more circular ears, more sharply bicolored and thicker tails. We don't really know what these are.

Left the last site at 8:30 AM then home via 15-395-58-5. Lunch in Bakersfield at 12:45. Very thick traffic on I-5 — 2 lanes full all the way. Back at MVZ at 6:40 PM.

D.O. Straney

1977

Berkeley Campus

3-4 Feb. Tom Wake brought in a Lasiurus cinereus which he found this P.M. in the Eucalyptus grove on campus. The bat has been dead for some time and has maggots on it. The Tongue is swollen and bloody. Kieth Murray was called and opined that it was probably rabid. At Patton's suggestion it will be frozen for tissues.

Berkeley to Sierra Foothills and Panamint Valley

26 March Left Berkeley 730 AM for 9 days of mousing with Peg Smith and John Cadle. Are after P. californicus in the Sierra foothills and P. something in the Panamints. Took 580, 280, 120, 49, 140 to Yosemite, cruising the chaparral for likely spots and arrived to have lunch ~ 1 PM. Will camp tonite at Upper Pines Campground which looks like it would be crowded in summer. Spent a few minutes after lunch taking in the sights and then went back out to set traps in chaparral we had seen coming in. ~ 40 miles there in 1½ hrs due to windy roads. Traps set in two places near the crest of the S slope of the Merced River:

D. O. Stransky
1977

26 March — 1.5 mi NW Bear Valley by Hwy 49 – set 120 traps in almost pure chemise with some manzanita. John got 2 Eumeces, 1 Sceloporus and one juv. Pituophus under rocks.

2.9 mi NW Bear Valley by Hwy 49 set 60 traps along a ridge above an old mine. Sparse chaparral with much rock and junk. John found one Eumeces.

Then across the merced and up the N slope to 8.4 mi NW Bear Valley by Hwy 49 at 1716 ft (Benchmark). Set 60 traps as the sun went down in rather dense chemise and manzanita. Some pines.

Back at Yosemite by 9 PM for dinner – very cold. To bed by 11 PM.

27 March — Up at 6:30 AM for Breakfast and then the long run back to the traps. We got:

1.5 mi NW Bear Valley

4 P. truei
1 P. boylei ?

allozymes say
3 P. truei
2 P. boylei

1 Taricha under a rock.

2.9 mi. NW Bear Valley

1 P. truei
2 P. mancalatus (♀ ♂ juv. in same trap).

8.4 mi NW Bear Valley

1 P. mancalatus
1 Eumeces.

27 March

Rather disappointing, especially as there was much sign of Dipo? diggings in all areas.

Have gone off to the Fresno area for tonite. Out 49 to 140 to 99 stopping for lunch at MacDonalds in Madera. Then on to Fresno and out 180 towards Kings Canyon. The slopes here are more dense than around Yosemite and we saw only a small band of poor chaparral going up - between grazed oak land and pines. Snow above 5000'. Came back down 245, a steep road, and saw good chaparral, but all fenced and posted. Followed 245 to near Woodlake and decided to let tonite go and move down to ~~Bs~~ near Bakersfield. Followed the signs to Visalia, seeing one dead Pituophus on the road 4.0 mi N Junct. 201 & 245 in Elderwood. Then 99 to Bakersfield for dinner and out 178 towards Lake Isabella. Camped @ 1500' along the Kern River at the only low campsite open in Winter. To bed by 11 PM.

28 March

Up at 7:30 PM. 178 is a busy road most of the nite, and some people pulled in to campground after @ 5 AM. Breakfast and a forage in the river ~~for~~ where found Gambusia, Helisoma and what looks like Corbicula. Many beechei's ground squirrels cavorting in the rocks. Drove N of Lake Isabella to Kernville, then took Sierra way N to Roads End and points N; looking for habitat. Decided to set as

28 March follows:

Fairview campground, 17 mi N Kernville on "Mtn 99",
Tulare Co 3600'
Cut over area not used in winter, rocks, oaks, scrub.
40 traps

Chemise Flat, 15.3 mi N Kernvill on "Mtn 99" Tulare Co.
~3500'
Chemise, sage, oaks - sandy substrate
120 traps - Saw 1 Mtn while setting

Hospital Flat, 6.9 mi N Keenville on "Mtn. 99" Tulare Co.
~3200'
Open and grassy - sage, pines, bushes & rocks.
40 traps.

Then drove back to Borel Rd., the old route up from Bakersfield and looked at Hobo campground. This is near one of Grinell's californicus localities. Set in canyons as follows:

0.8 mi E Miracle Hot Springs, Kern Co.
a grazed area, oaks, buckey, much grass & rocks
John got 1 Dicadoplus under a rock.
~~40 traps~~ 20 lg, 27 small traps.

1.4 mi W Miracle Hot Springs, Kern Co.
not as open as the last, more rocks, fewer rocks.
not recently grazed.
40 traps

3.4 mi W Miracle Hot Springs, Kern Co.
Similar to last site - more open - 30 small traps.

28 March Then returned to Upper Ruelbar Campground where we stayed last nite – to bed by 8PM.

29 March Up at 6AM for breakfast. then checked traps.

0.8 mi E Miracle Hot Springs

2 P. trueti 3 ? P. Californicus? (Prob trueri) ← {allogynes say 5 P. trueri

1.4 mi W Miracle Hot Springs

7 P. trueri 1 Scelaperus ← {Allogynes say 7 P. baylei

3.4 mi W Miracle Hot springs

1 P. baylei dead 4 P. trueri? ← {Allogynes say 5 P. baylii

Fairview Campground

2. Neotoma fuscipes

Chemise Flat

4 Dipodomys

3 P. maniculatus (1 dead, 1 escaped)

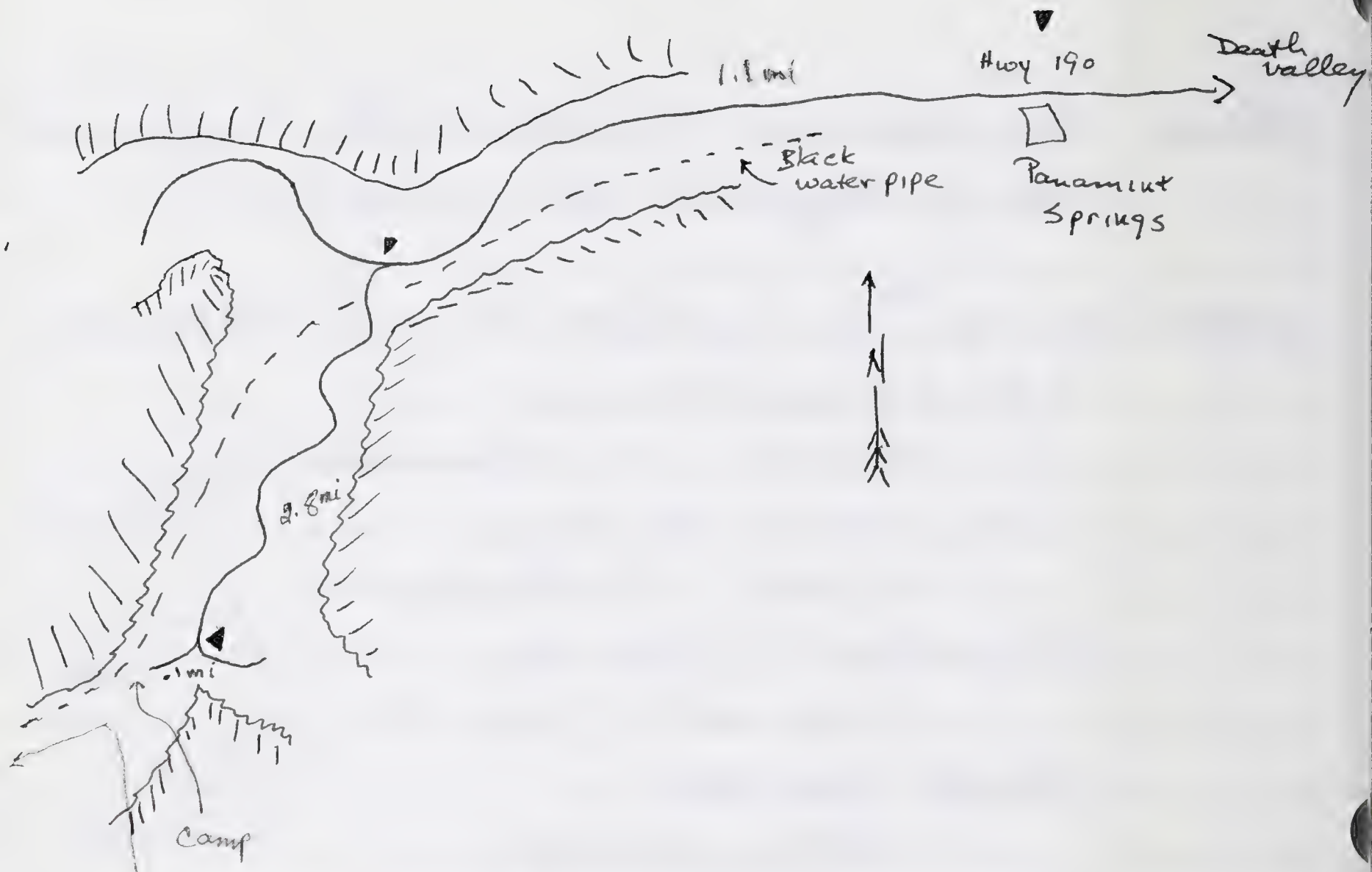
12 P. trueri? ✓

Hospital Flat

2 P. trueri? ✓

one juv., the other lactating ♀ w/ 6 mammae. the juv. seems lger than the ♀. Do we have 2 forms? {NO - all P. trueri}

Drove out 178 over Walker Pass to Bakersfield and Trona where we got groceries. then out to Panamint valley to 190 then W to Panamint Springs. ~3mi W Panamint Springs, a dirt road leads off SW following a water pipe until the pipe



Darwin Falls ~ ¼ mi up stream.

29 March goes off up Darwin Falls Canyon. A small road follows and we went down this ~.1 mi to base of canyon and set up camp. Walked ~ ½ mi up to the spring. There is much water and the stream runs well past our camp. Set traps along the stream below the 1st falls – in cattails & willows for a while, then along the canyon wall. 57 small and 20 lg traps here. Another 20 lg traps along wash below camp. Then dinner. Peg found 1 Bufo boreus while setting and we returned later to find 3 more in the pond at the base of the permanent spring. Saw a bat (Pipistrellus?) drinking here. Returned and in bed ~ 9:30 PM – heard a ★ boreus braying before falling asleep. [Heard great horned owl earlier in day].

30 March Up by 7 AM for breakfast and the walk up the canyon. Got:

Darwin Falls, Panamint Springs, Inyo Co.

7 P. crinitus (1 escaped)

1 P. maniculatus (dead)

1 Bufo boreus in trap

1 Crotaphytus floating in stream.

The crinitus were all above the place where the stream looses permanence.

Also, below camp got

Chris Wick camp

Panamint city
-need 4-wheel drive

Surprise Canyon

Happy Canyon

Pleasant Canyon

4.4mi.

Ballarat

← N

2.2mi.

Rock w/
"Panamint City"
→

4.1mi.

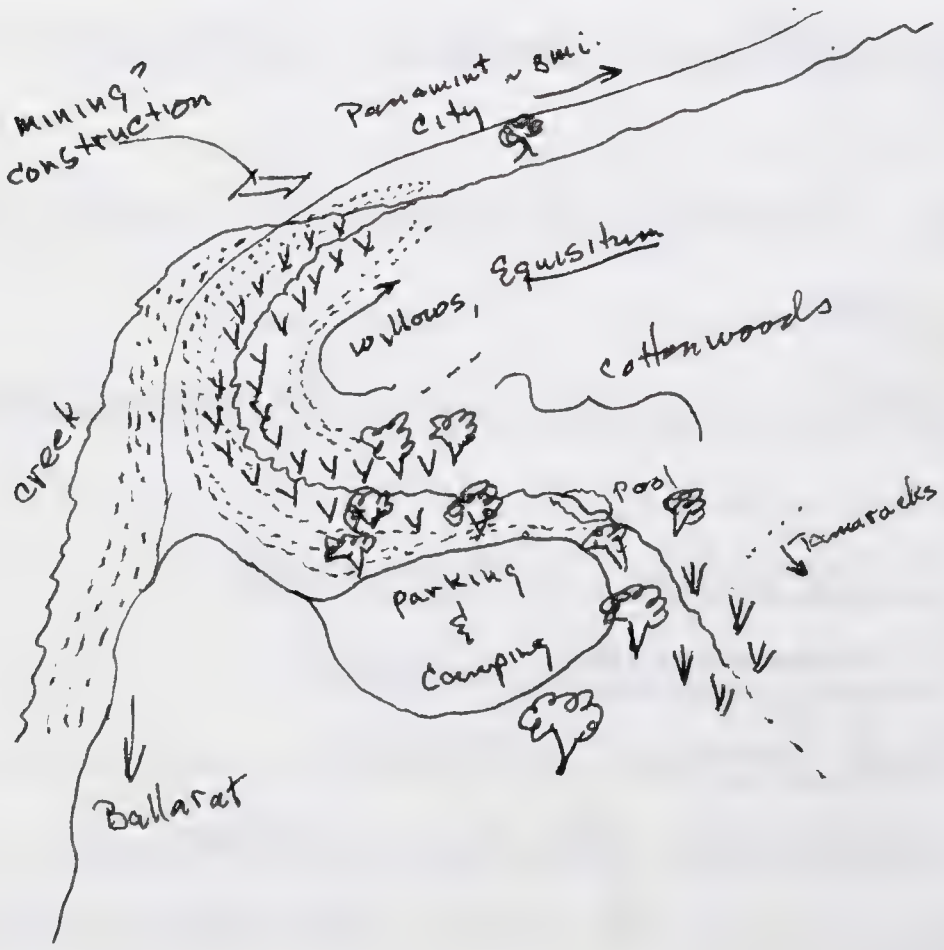
Panamint
Springs

Trona

Trona
Hwy

Rock w/
"Ballarat"
→

chris wick camp



30 March

2 Dipodomys merriami? (4 toes)

1 P. crinitus

Drove over to Chris Wick Camp, Surprise Canyon, 3 mi. N 2 mi E Ballarat, Inyo Co., ~2,000'. There is now someone living here, charging $1⁻/car/nite so we won't stay here. He mentioned that some of J.D. Smith's people had been up recently. Set 50 small and 80 lg traps in dense vegetation (cottonwoods, Willows, Equisitum, Typha and Tamarack) along the creek and in less dense cottonwoods and Creosote along the edge of the wash. Had lunch then back to ~~Darwin Falls~~ to process mice. John took 3 small ~~4 lg~~ traps up to the falls to set. Processed until ~7 PM when it was too dark and windy for more, had dinner and in bed by 9:15 PM.

31 March

Up at 7 AM for breakfast and, since it was a warm morning, a semblence of a bath. John's line of 40 traps in Darwin's Falls got:

1 P. crinitus (escaped).

Headed for Surprise Canyon where we got:

16 P. eremicus (2 dead).

What are these doing here. In July '74, I got 31 maniculatus and 40 crinitus + "crassi Caudatus along with 8 Nestoma lepida, and 19 Perognathus (formosus?). This is a complete shift in composition. J.D. Smith has trapped this area and claims P. eremicus

31 March

only occur on the desert floor. But no unusual Peromyscus which were the cause of us coming over here

Left Sunpine Canyon ~ 11:30 AM for Ridgecrest and lunch at MacDonalds then back Hwy 178 to trap for californicus again below Mineral Hot Springs. Saw one Antelope ground squirrel while driving over Walker Pass - snow above 5000'.

Set traps along Borel Rd = Kern Canyon Rd = old Hwy 178 (?) as follows

~~10.3~~ 10.3 mi W Mineral Hot Springs on Borel Rd., Kern Co.
60 4 traps in Ceanothus, oaks, Hawthorne on a grassy slope of a hill.

9.8 mi W Mineral Hot Springs on Borel Rd., Kern Co.
60 4 traps up a canyon w/ rocks, oaks and Ceanothus - long grass. Saw a rabbit John caught a ♂ Sceloperus.

7.6 mi W Mineral Hot Springs on Borel Rd., Kern Co.
20 in open canyon, sage, grass, oaks, yucca.

5.5 mi W mineral Hot Springs on Borel Rd., Kern Co.
60 in a steep canyon w/ oaks, grass, rocks, Ceanothus and Buckeye

31 March — 5.2 mi W Mineral Hot Springs on Bard Rd. Hern Co.
40 ♂ & 29 small in open grassland w/ Sage & Ceanothus.

By now dark so back to Upper Rechlar for dinner and bed. Asleep by 9:15 PM.

1 April. Up at 6:30 AM for breakfast then off to check traps:

10.3 mi W
1 Neotoma fuscipes (released)
1 P. Californicus (Ceanothus & Hawthorn bushes)
2 P. Manculatus
7 P. truei (3 dead)
11 P. Boylegi (7 dead)

9.8 mi W
9 P. boylei (released)
1 P. maniculatus
4 P. Californicus

5.2 mi W
5 P. boylei (released)
1 P. truei (released)
3 P. maniculatus
1 Neotoma fuscipes (released)

While releasing the unwanted boylei, one dead one fell on the side of the tarmount. Seconds later, an owl (Pygmy owl)

D.O. Straney
1977

1 April

surrounded by Anna's hummingbirds landed 6" to the left of the carcass, jumped on it and flew to a nearby oak and started eating it. the owl stood ~7-9" tall, sandy bars on white belly and sandy spots on light back - 2 black marks ~~a~~ on back of head, yellow eyes, no "horns", and a face smaller than a mouse. It watched as we threw several more mice but finally was spooked.

5.5 mi W
6 P. Boylei (released)
1 Peromyscus Californicus

John found 2 Gerrhonotus multicarinatus under a log.

7.6 mi W
1 P. boylei (released)
1 P. truei (released)

the two areas where we got P. Californicus are 11.8 & 12.3 mi W of Bodfish which corresponds nicely to Grinnell's old 1916 locality of 12 mi down from Bodfish where he got californicus (assuming 1.) Bodfish was not moved when lake Isabella was put in and 2.) this road is the one he used). We will reset here tonite.

Returned to camp and processed animals until ~4:15, then out and reset traps at

10.3 mi W & 9.8 mi W Mineral Hot springs

in different, but similar, areas. Then off to

D.O. Stanley
1977

Kernville for dinner. Back to camp ~ 9 PM to find it invaded by Boy scouts. to sleep in short order.

2 April Up at 7 AM for breakfast. Checked traps and got

10-3 mi W

1 Neotoma fuscipes
7 P. truei
2 P. boylei

9.8 mi W

7 P. boylei
4 P. truei (2 dead)
2 P. californicus < 1 in creek bed, 1 under hawthorne.

Noted the rear tire had gone dangerously low, and having no spare decided to cut the trip short one nite and return to Berkeley today. Back in Berkely by 4 PM.

Berkeley to Dallas, Tx.

29 June — Left for Airport 10:30 PM, after moving out of Apartement. Delta would not take LN tank, so wrote Alice a desparate note to Sleep it to us in San Antonio — will call her at 11-12 AM tommorrow (1-2 local time) to see what she can arrange. Also have asked her to send a small tank to us in Trinidad. Need a restricted article form. Flight left 12:56 AM — 10 min. Sleep en route - arrived 5:52 AM & met John Cadle.

Dallas to Devine, Tx.

30 June — Left airport, getting breakfast on way, for San Antonio. Arrived at airport ~1:30 & called MUZ. Dave had made arrangements for LN tank - will send empty one W/ Mary Ann for Trinidad. Had lunch at McD's. Drove to Castroville to see edge of Edwards Plateau - many large mesquite thru here - yucca on plateau. Then to New Braunfels to one of Sam's Euryces springs in Landa Park but for crowds were unable to find any. Then to airport to repack car - LN arrived 8:30 PM. Dinner at Sizzlers. To Devine & a motel for the night by 9:45 PM.

1 July — Devine, Tx to Monterrey, N.L. Mexico

Up ~10 AM after a good nites sleep. Lg breakfast at the motel, then uneventful drive to Laredo. Arrived 2-2:30 - proceeded thru customs,

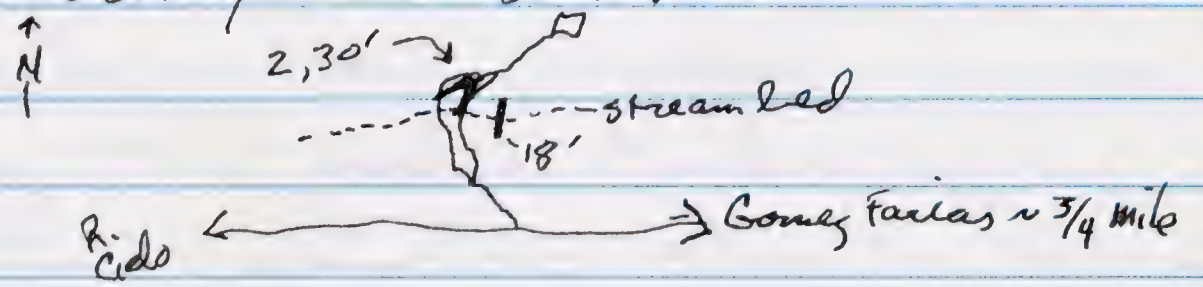
1 July cont'd but could not get them to accept John's Canadianship. Back to Sanborns for notarized affidavit and back again - Same hassles, but finally proceeded to inspection. Much trouble over LN tank - needed "permits" from Mexico city or something like that. Much talking - then took us to customs office in N. Laredo where they couldn't help, then back to boarder & more talk. All very cooperative but they didn't know what to do. John finally got thru it — they never looked at anything else. Then drove out 85 to Monterray, leaving about 3:30. Arrived Monterray ~ 6:30-7 after a long drive thru flat lands (mesquite gradually dropping out) and up onto the plateau the city is on. Much driving around Monterray looking for a place to stay but cheap ones all full. Hit bad traffic in town. Decided to go up to Chipinque motel on Mesa SW of town. A little expensive and plush but nice & cool with fine view of city. Very nice forested mountains. Dinner of beer and then to bed.

Monterray to Gomez Farias, Tamm., Mex.

2 July Up at 8 & drove on w/o breakfast. Lunch in Lanares ~ 12:30. Then on to C. Victoria thru increasingly tropical country w/ dissected mesas. Then to Gomez Farias

2 July contd

upon a leading ridge upfront of the Sierra Madre. A smallish, friendly town. Walked up rd. to Rancho de Cielo always finding 2 types of millipedes, sulfer, Zebra butterflies & at least 3 preatly forms neither of us knew — many birds. 5 min rain ~4 PM. Back to town for dinner at café N of square. Back down to W valley towards Rancho de Cielo to set bat nets on lg trail to house (pigs/chickens) on R just up hill fm 3rd lg meadow in canyon. Talked w/ women at house who said livestock were bothered by bats. Set nets:



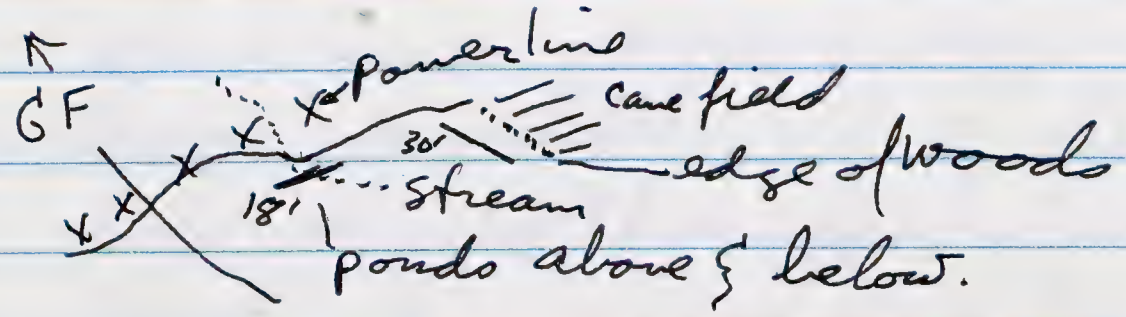
N-most net got most bats. Nets up by 9:10 - 1st bat (Artibeus) at 9:15, then Desmodus ♂ ~ 9:30. then 1 more Artibeus between then & 10:15. Between 10:15 & 10:30 - got rest. ♀ ♂ Desmodus not fed. Myotis came in ~ 11 PM. Nets down 11:15 PM then back to gravel pit below town for camp. Muggy night.

3 July

Gomez Farias area

up 7 AM after dog barked for ~ 45 min after sunrise. Down to Cd. Mante, after talking w/ man living behind gravel pit. Apparently pit viper occur here. He was ~~sur~~ amused that we did not

3 July cont'd. want him to touch Desmodus, but that we would pick up a Leptodira which he was frightened of. Breakfast at Los Arcos Tourists in Mante — a very nice place. Gas. Then back to Gomez Farias and specimen processing at gravel pit till 1:30. The local "kid" kept John entertained the most. Retired to cafe for lunch of cokes, then hiked several miles up towards Rancho del Cielo. Wonderful mesic forest but all rather steep. Found a whip scorpion and many fine butterflies. Saw 3 Iguanids in crevices but John could only get out 1. Several Sceloporus & skunks runaway. took pictures. Back ~6 for dinner then drove down looking for lowland slope places to net. Found an area in lowlands where nice trail followed power line X'ing G.F. rd., ~~**~~ 4.0 mi E Gomez Farias. ~~38 X'ing~~.
Set 2 nets here ~~~9:00~~ 10:00 - delay due to heavy downpour at dusk that lasted till 9:30. Nets:



Got nothing, but frustrated. Took down at 11:30. Very few insects noted.
Bed ~ 12 - 12:30

Gomez Farias, Tam. to Tamazanchale, S.L.P.

1 July. Up at 7:30 after a balmy night. Mante for breakfast at Los Arcos Courts, done 8:45, then to bank to change money and get post card off to MVZ. Thence towards Cd. Valles. Took 80 into San Luis Potosí for salamanders. Looked at several places nea. waterfalls on river in mts W of El Naranjo, S.L.P. (3rd ridge W of 85) but found nothing save insects. Some interesting ant mounds here

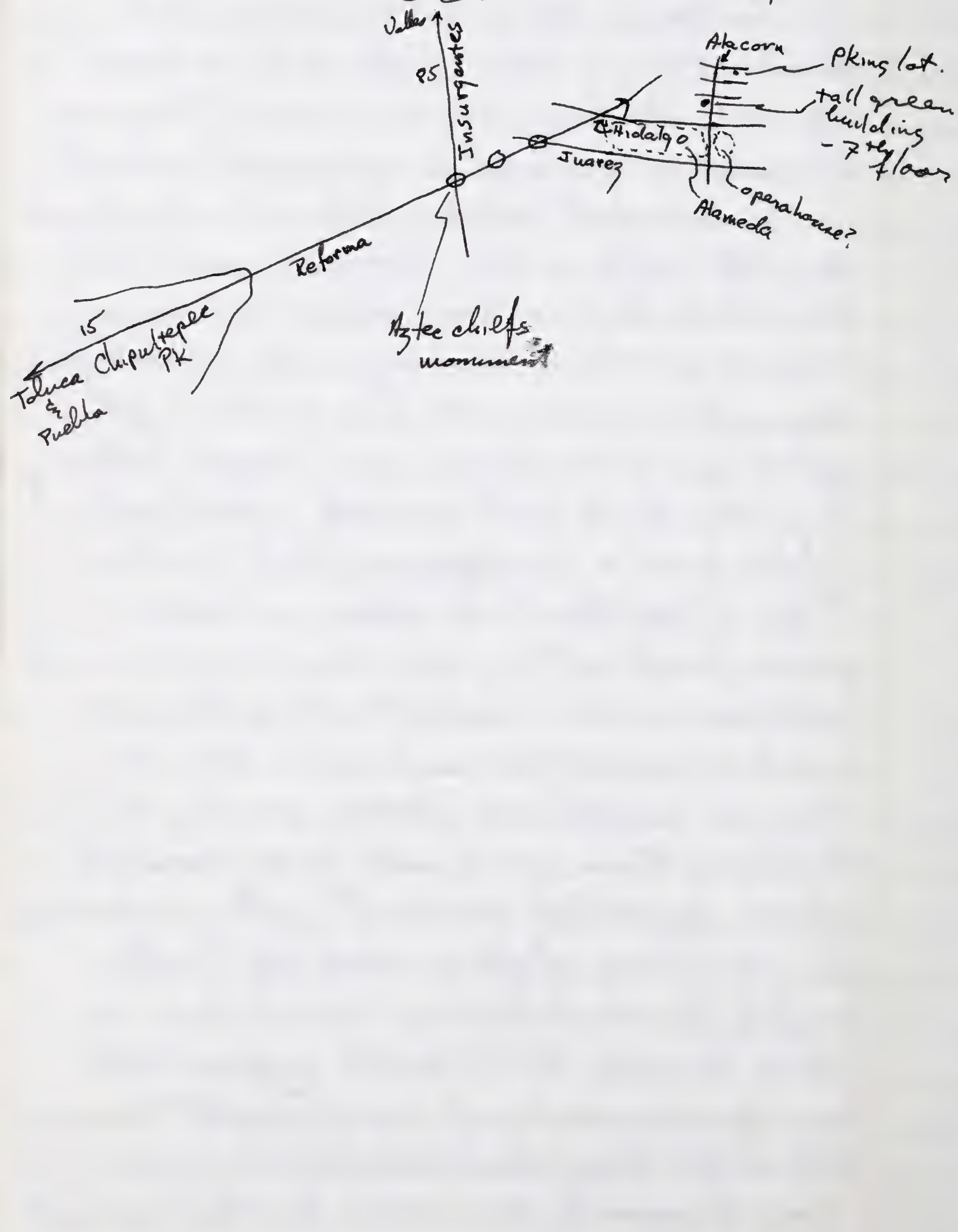
of fine dirt. Probably deep. A nice clear blue stream, muddy bottom & a wonderful falls. Drove up 80 several miles finally getting into good bromeliad forest (laurels, etc). Stopped to pickle (John's) specimine then back down 80 to 85 & Valles, reaching there ~5:30 for dinner at El Bancos tr. pk. then on to Tamazanchale & a road drive up rd to San Martín at dusk (~7:30). Area thru here is very mountainous w/ steep valleys. Almost every tillable inch of slopes has been cut & planted to coffee or bananas. No nets set as no good place found. Room at Junta Court for the night and a shower!!!

Tamazunchale, S.L.P. to Taluca, Mex.

5 July

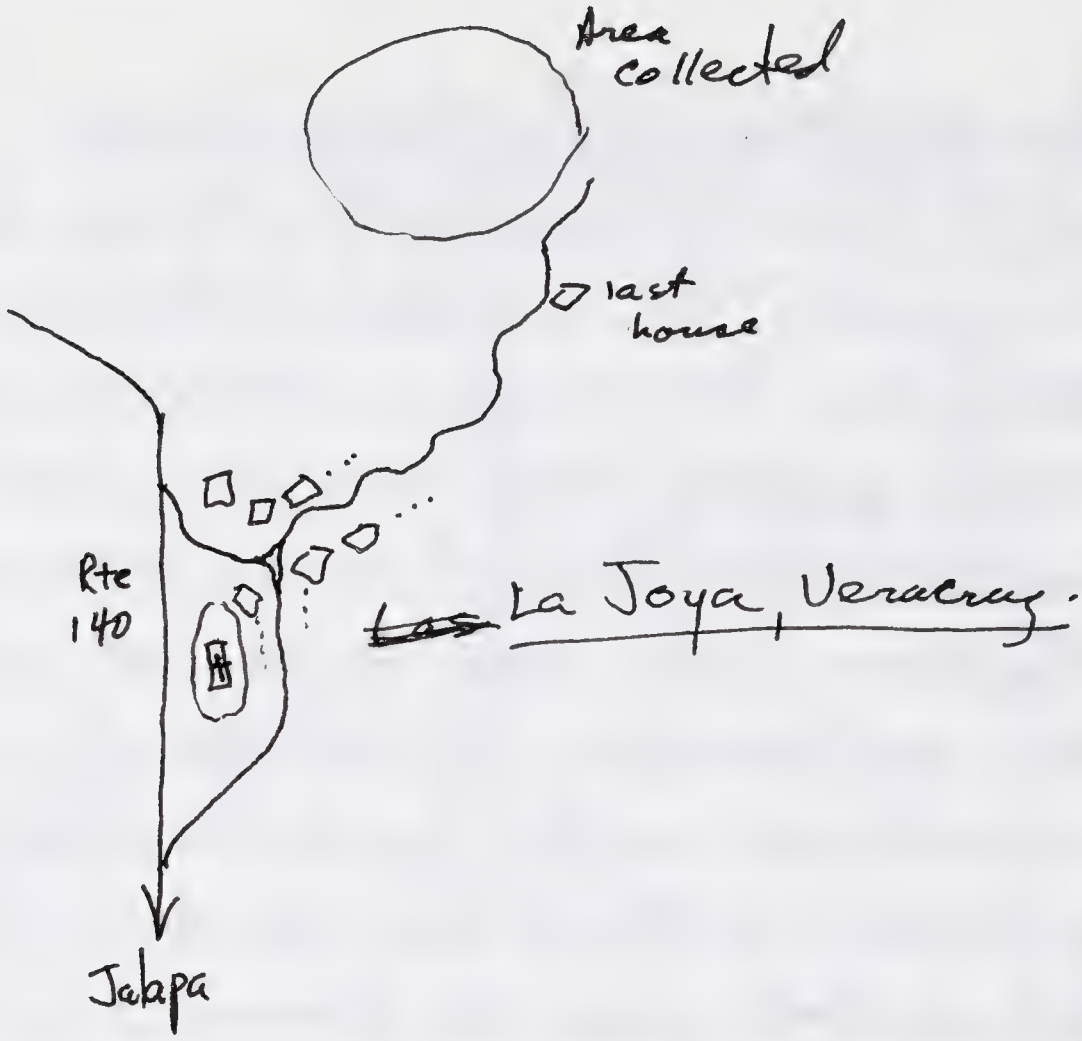
Up at 7:45 & into town for breakfast. Went out San Martin Rd to cull bromeliads but found nothing in them. Left on 85 to Mexico city ~10, climbing thru the sierra. Surprising how much of this land is cultivated - ventually no undisturbed habitat below the pine forests. Very little traffic in mts. Stopped once to peal bromeliads but nothing except irritating sap. Stopped W (S?) of Durango, Hgo. to look for salamanders in pine woods but too dry - John got a Hyla & two lizards here. Stopped further down the rd. at level pine/oak woodlands & John found a Pseudoleptycea bellii under 1st pile of leaf litter. Much looking in moist places found nothing else. Many limestone sinks holes here - which is probably where they are. Lunch ~2:30 of PB & J sandwiches then on down rd. Dropped onto plateau passing thru chihuahuan thorn scrub and some dreadful habitat. Approached Mexico ~6 PM, getting an undeserved fine for running redlight as entered city. Traffic terrible. Dinner at KFC on 15 as we drove to Taluca for night. MUCH hassle finding a hotel here - drove around much until (10 PM) spotted terminal Hotel which is cheap. Much needed rest before going for permits tomorrow. No collecting tonight.

Map to Direction General de la Fauna Silvestre offices for Permits - mexico city.



Taluca, Mex. to Puebla, Pueb.

6 July Up at 8:30 and breakfast in sleazy bus depot adjoining hotel. Then back to Mexico city for permits. Discovered in town my watch is 45 min fast of local time so reset it. Entered permit office at 10:28 (see map). Exactly 4 hrs. later left w/ permit after waiting and waiting for them to do something. The secretaries are the key to the whole show. Plan to waste a day if have to do this. Picked up state maps @ 18 pesos on Juarez by the Alameda then drove out. got mixed up trying to get back on Reforma but finally (10 min) were headed right way. Noted many police - busloads of them and in Chapultepec PK discovered the reason - a (leftist?) demonstration apparently centered on health care. Came out 150-D toll rd to Puebla, stopping for dinner at a brace of restaraunts in Rio Frio ~~Puebla~~ (5:30-6:30). Drove out old 150 from here ~3 miles and turned daff 3 logs for salamanders - found none! 18 (5 spp) break as 1 Chiropterotriton, ~~1~~ 3? Pseudoeurycea sp 1 & the rest P. sp 2. Collected 6:30-7:30 by which time getting very dk. ~~&~~ Drove on down toll rd to Puebla to a nice motel just off freeway at E end of town for night (9:00) of salamander skinning.

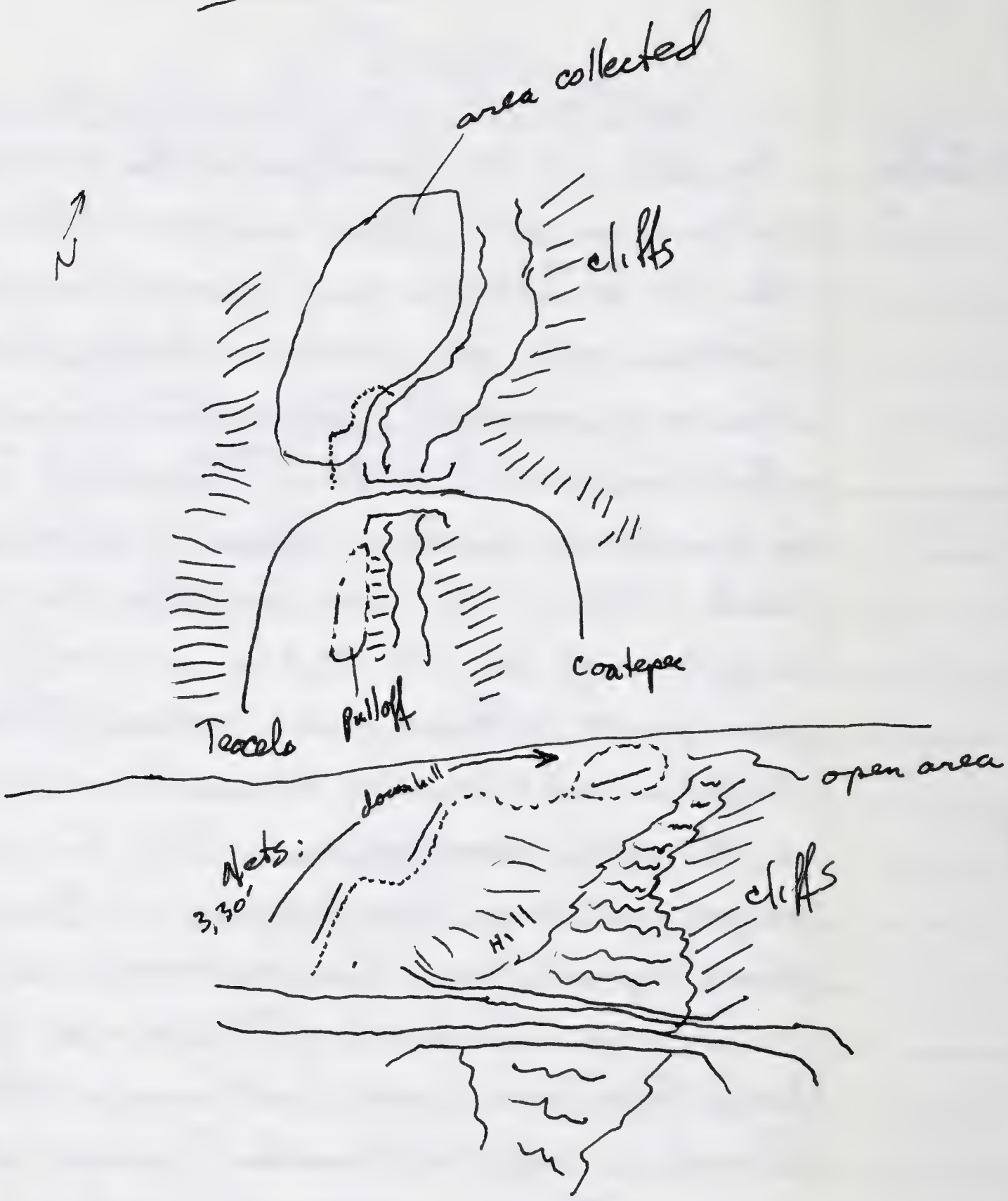

Area collected
last house
Rte 140
~~Las~~ La Joya, Veracruz.
Jalapa

Puebla, Pueb. to Banderilla, Ver.

7 July

Up late ~9:30, breakfast at the restaurant of the Zaragoza motel, then on down toll rd. Took Rte. 140 to Jalapa and wound around plateau with mtn peaks in clouds. Several rain showers - overcast. Interesting rain shadow effect near peak of plateau. Stopped at Las Vigas to turn stones, finding Toluca & Sceloperus. Then back 2.3 mi W of town (actually this mileage is W of turnoff fm 140 to town on W end) to fine pine forests w/ bunch grass (scattered) & thick duff. Right on rd shoulder turned big log & caught a Microtus ~~mex~~ mexicanus (?). In woods proper got 2 sp. Pseudoeryces & 1 thorius plus a lizard or two. Then on down rd (~2:30) to La Joya for lunch of PB & J on side of rd then back thru town past last house. Volcanic boulders all over in oak/pine/bromeliad/grassy area. Turned stones getting many snakes: Thamnophis, Geophis, Tantilla, Toluca, plus lizards (Sumyces, Sceloperus). Peeled many (up to 100?) bromeliads finding ~11 Chiropterotriton larvae. Quit ~6 PM but could not get bromeliad cutter apart - spend some time on this, finally tied it to car. Drove to Banderilla & out rd. to Misatla, looking for rat sights & crocodiles? Looked in old viaduct thru mtn. - bats there but few. Getting dark fast, but nothing good for nets. Back to Banderilla ~7:15 to find motel

Teocelo Gorge



7 July cont'd. and for food. Then (~8) drove the rd to fence w/out finding anything (~5 mi up & bk.). Back to motel to process by 10 PM.

8 July

Banderilla, Ver. to Coatepec, Ver.

Up 7:30 and then gas, breakfast & desconected the bromelad cutter. Went (9:00) to check Viaduct for bats - none there this AM. Viaduct is 3.5 mi N Rte 140 in Banderilla, along rd to Misatla. Then ~~bdfa~~ back to Las Vigas to check in w/ the boy there who said he would catch us snakes. No show. So ~ 10:45 on to Jalapa for check cashing & postcard to dave. Much hastle in city — finally done ~ 12:30, then out to Teocelo gorge, 1.9 mi NW Teocelo, Ver. (by rd.). Spent ~~xx~~ afternoon looking here for herps but found only one skink - not the 4 sp. of salamanders Sambad. The area is planted in coffee (sparsely) & banana with steep slopes & rocks (lg) in abundance. Up to Teocelo for Cokes for lunch then (3:30) more collecting. Broke ~ 4:30 & drove out past Teocelo but the area is all planted to coffee, bananas or villages. Back to Coatepec where we got a cheap motel. Then returned to gorge for netting. Nets up ~ 7:15, dark ~ 7 PM. Immediate big rush of Carollia & Sturnira at upmost net lasting ~ ½ hr. Then dribbles. Got 1st Desmodus & Anoura ~ 9:30-9:45. Nets

8 July, contd. down by 11 PM and back to motel, as nothing
veo & exciting was turning up. Noted a
sign on a nearby finca claiming insecticides
were being used heavily - this may explain
the species composition here, although
there were moths in abundance, but very
few beetles or other noxious "bugs".
Most bats caught seemed to be going towards
water - most caught in topmost net. Right
below this was the calmest, best pool
we saw on the river, right at the bridge.
Almost all bats (same Desmodus) had
fed.

Coatepec, Ver. to Orizaba, Ver.

9 July Up at 8:00 to be greeted by a flat tire. Changed it
& repacked car & drove thru Jalapa & up to Banderilla
before finding a Vulcanizadora to fix it. This took
until ~10:45. Up to restaurant in La Joya for
lunch at 11 then up to Las Vigas area for a
nice place to process our accumulated catch.
This took until 5 PM, with much fog & cool air
to keep things from spoiling. Then a long drive
to Orizaba stopping at the 1st motel we saw (8:30).
Dinner in town, then back for bed.

D.O. Straney

1977

Orizaba, Ver. to Coatlalpan, Ver.

10 July

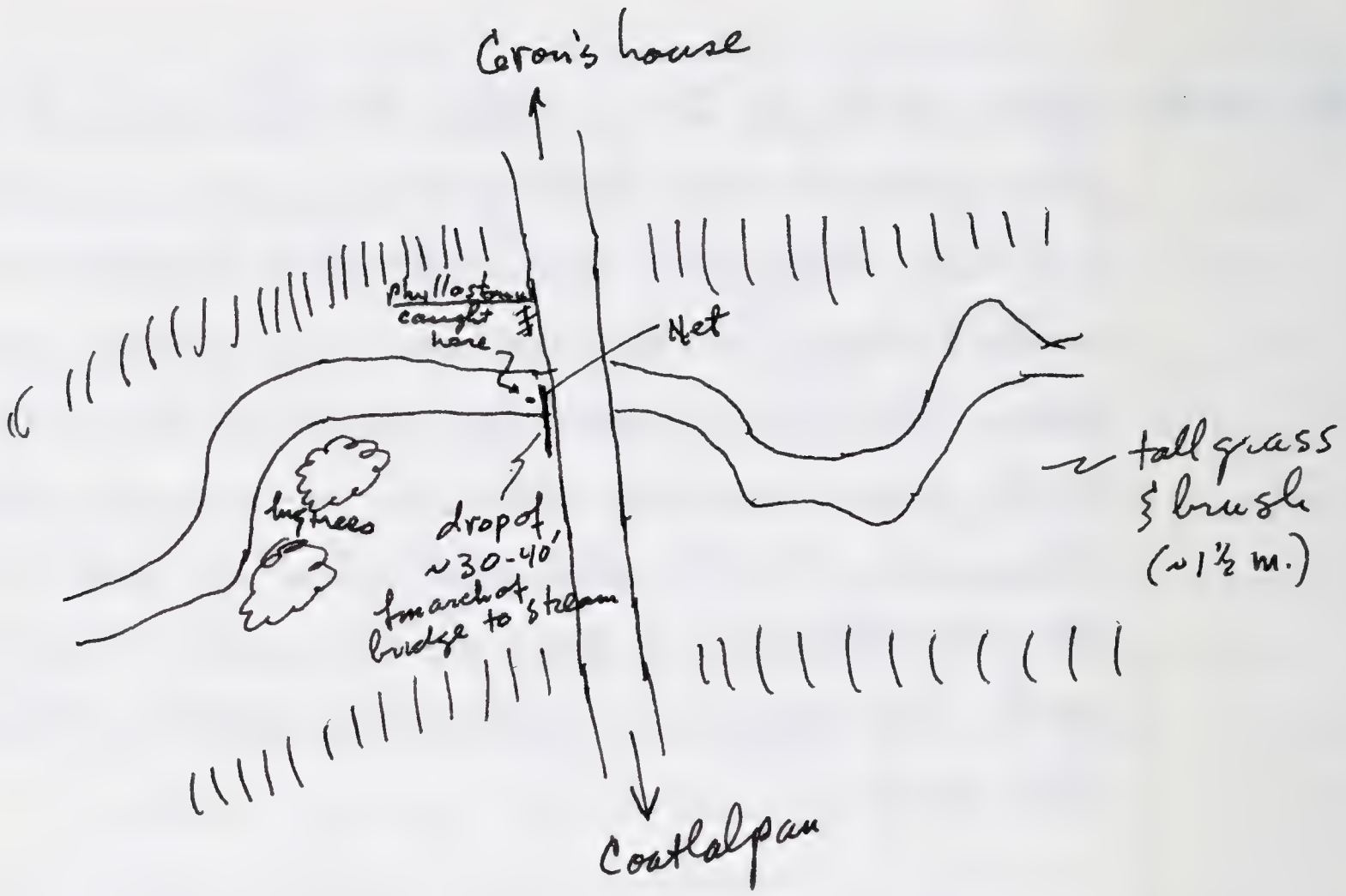
Up early at 7 to repack the car. Then drove to Coatlalpan to find Sr. Carlos Ceron, a man who has helped many herpetologists. The area around the town is mostly planted to bananas & fruits but a fair amount of native vegetation remains in this steep, hilly country. Sr. Ceron was away for the morning so a boy named Daniél took us out for 2 hrs to peel ~~bananas~~ bananas for salamanders & frogs. Found ~4 small Bolitoglossa and a Smilisca this way. Back after noon & met Sr. Ceron, a gaunt friendly gentleman who talked with us while watching Mexico loose at soccer. Many herpetologists have used his help, some of whom we also know — he began w/ Edward Taylor 36 yrs. ago. Late in the afternoon he took us out (w/ 2 nephews) to a lusher banana area and we found 4 more Bolitoglossa, Smilisca & 2 Anotheca. Returned to town & were introduced to his younger brother Miguel who, with his wife, visited various folks in California 2 yrs ago. Very pleasant chat, then he offered us the floor of his unfinished new house to sleep & work on & they proceeded to clean it up for us. Then Miguel informed us we would eat with him that PM. So waited for that — part dark. A magnificent meal - for the 2 of us only - but frustrating as I had planned to set a net at dusk outside a cave below 150 + that we had looked in earlier & saw 2 small phyllostomatids in. Instead, ~1 hr

10 July, contd. after dark, Sr. Ceron leads to the river to look for a place to set. Most of the river is set in a fairly deep cut and outside of town is very wide & deep. Looked at several places nearer town, but none looked too good as there was much high grass surrounding the narrower stream channel. Finally decided that a look in the AM was called for & quit for the night w/ no nets set. Sat up for a short while talking then to bed early.

11 July

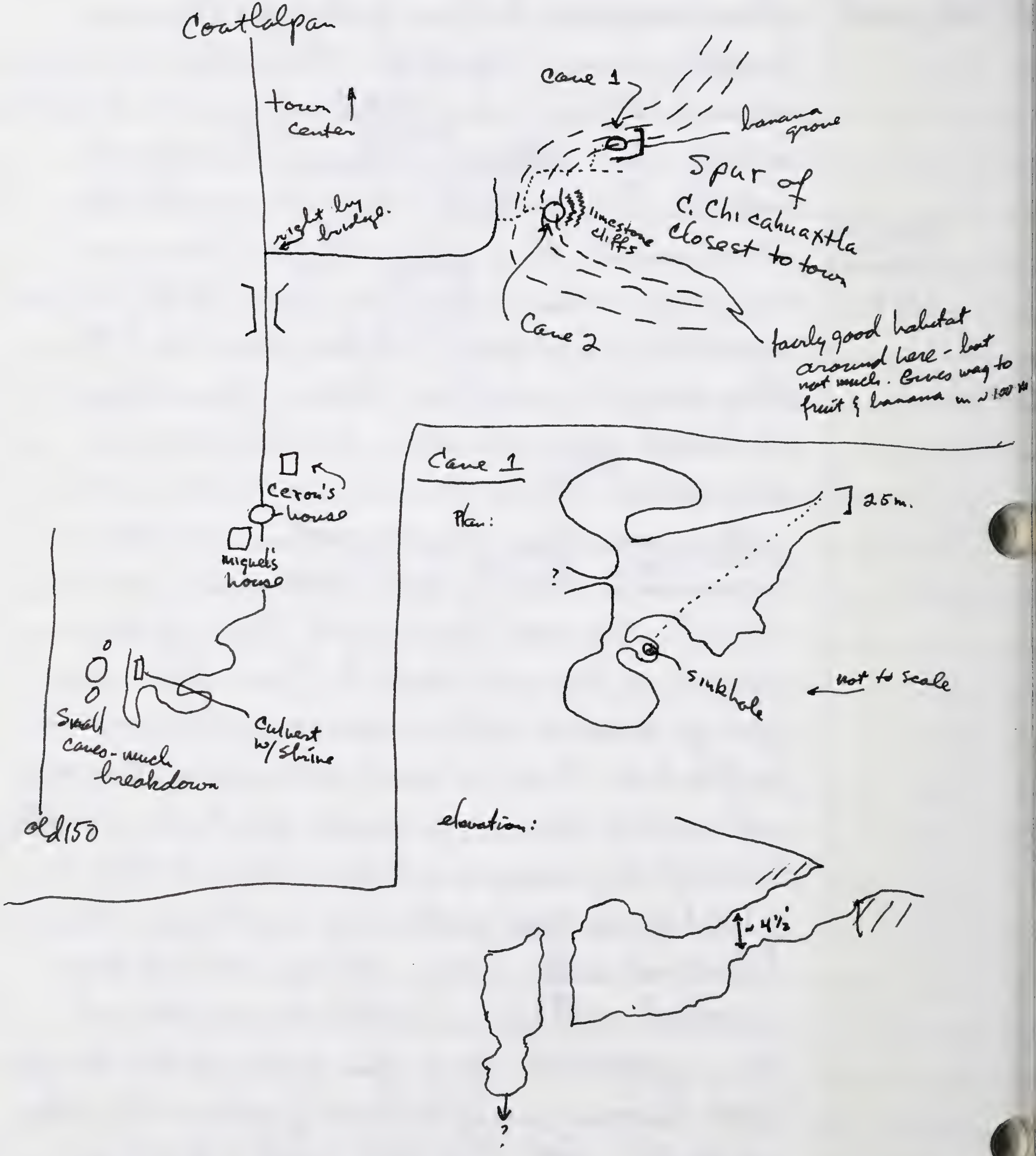
Coatlalpan, Ver. Vacinity

Up at 7^AM, awakened by Daniél instead of the alarm clock which was 1 hr behind — a time change somewhere. Breakfast supplied by Sr. Ceron. Then off up old 150 to San Bernardeno, Puebla (See John's notes for directions) & salamander collecting in cloud shrouded, rainy pine/oak/grass/rhodedendron forest. Many thorius under logs & several brightly colored scaloporus. Appeared to be some gopher activity in cleared areas grown back to grass. Then on down a few miles to a drier area in the rain shadow of the serrian front (California-like) for lunch (á la Ceron) & a look for snakes, which we didn't find (2 scaloporus, tho). Then back down 150 to Puente del Aire, Puebla



Town bridge, Coatlalpan

11 July, contd. where everyone but me looked for flowers finding many. I napped. Then down always towards 150 & an area of tall oaks w/ lg bromeliads to look for Abronia. Many bromeliads looked in but nothing. Ran into woodcutters who claimed they found them in moss on tree sides when it was this wet, but Sr. Coron wouldn't believe it. A few moments later they caught up with us having found one. We looked more, finally finding one in a bromeliad. On returning to the car, the cutters were there w/ yet another moss living specimins. Then back to Coatlalpan, arriving ~ 4:45 PM. Several boys had been up to a cave near town & brought back 4 (#260-263). Set up to go to caves w/them tomorrow AM - 20 pesos for the bats. Then an early dinner at Miguel's and out to the river again for bats. Finally decided to hang a net from the bridge as I had done last fall near Las Vegas. Used bromehad-cutter poles. This would have worked well if we could have cleared the vegetation off of the sides of the bridge. Dark by time we got there & net up ~ 1 hr later at 8:45. Got 1st & only bat ~ 9:30 in lowest trammel. Net down at 11 PM. Saw other bats flying (3-4) but seemed


Coatlalpan
town center
right by bridge.
Cave 1
banana grove
Spur of C. Chicahuaxtla
closest to town
limestone cliffs
Cave 2
fairly good habitat around here - but not much. Gives way to fruit & banana in ~1000 ft
Ceron's house
miguels house
Small caves - much breakdown
Culvert w/ Shrine
old 150
Cave 1
Plan:
25m.
?
sinkhole
not to scale
elevation:
~4½'
?

11 July, cont'd. to be either above or below wet. The area around the bridge is heavily settled with banana, fruit & cane fields scattered in near the banks of the arroyo. Back & to bed by 11:30 PM.

Coatlalpan, Ver. to Tuxtepec, Oax.

12 July Monday Up at 7 for breakfast at Miguels by 7:30. Then John ~~went~~ went w/ Sr. Ceron & Daniel to climb Cerro Chicahuaxtla which dominates the city - looking for Lineotrichan & Pseudoerycea. I went w/ 3 boys to the caves on side of this mtn., 10 min out of town. Went up to Cave 1 & in 10 min had 3 Desmodus & 1 Diphylla (!). Other bats were scared around a ledge which lead to a hole straight down. Powered this for a few min. & saw 2 vampires (sp?) fly up, but couldn't catch them. After ½ hr gave up & went to cave 2 - with a ~12 m. entrance portal leading to a mouth of ~1m. Set up a sht net at mouth & kids went down in cave to frighten bats out. They caught the other Carollia fm here yesterday & got more insects. Glossophaga tried to fly out but caught in net. 4 other bats in crevace above net, but could not catch them. Returned to town by 10 Am & processed bats & waited for John who arrived ~1:45 PM. Then

12 July, cont'd. lunch at Miguels. Processed some of John's many specimines, & packed car. I left town ~ 4 PM with fond memories of some very friendly & helpful people. Drove to Tuxtepec, arriving by 8 PM. More processing of John's haul & to bed. Saw 2 Oryzomys ? in courtyard of Motel (El Resposo) but couldn't catch them.

13 July

Tuxtepec, Oax. to Vista Hermosa, Oax.

Up at 8:30 and into Tuxtepec proper for breakfast and to have the tire re-fixed. Then drove down 175 thru Valle National which is just into the foothills. Prior to this the area is heavily cultivated, esp. in cane. Several promising bat areas just N of town. Got gas here, then up into mtns. At 16.9 mi S Valle National (from river) came to good pulloff on a small ridge (1390 m.) and here photographed and processed most of John's remaining specimins. Then in mid-PM drove up the rd always looking for collecting sites. Very steep in here, cloud shrouded. Tall gallery forests w/ cecropia that is hard to reach except along streams at curves in the rd. Many fine rockfaces. Stopped ~ 4:30 at a small chapel 30.5 mi S Valle National & John searched for amphibians, finding 3 thorius — I got one Lepto-dactylid near the car. Then drove back to Vista Hermosa for dinner at a tiny front-room eatery.

13 July cont'd. then back up rd 1.6 mi S Vista Hermosa where a well-kept trail led back to a small cemetary in a clearing. Set nets along the trail (one) & along the S edge of the clearing (one). Began setting ~7:15 when 2nd one up it began to rain & just then got a small Myotis. Rained steadily so went w/ John to check rockfaces. At the above pulloff we searched in mild rain, John finding a potentially rare snake here climbing on the rockface! Then rechecked nets at 8 – nothing. Went up to La Esperanza & John checked another rockface in drizzly, windy rain – nothing. Then drove for a while & back to nets ~10:15 – nothing so took them down. Back to pulloff & set up tent & to bed.

14 July Vista Hermosa, Oax. to Machin, Oax.

up ~8 AM & hung out clothes to dry. Wrote field notes and John preserved the rest of his catch. I went thru my nets and cleaned them, finding 3 that need to be mended. this done by 1 PM then up to Vista Hermosa for a much needed meal. Left 2 PM back up rd to Oaxaca stopping 1st at a trail on ~~W~~ E side which John investigated. then up rd more stopping shortly to turn logs. Hit rain about 3:30-4:00 and did not let up. Drove as far as El Machin arriving 5 PM for cokes then back N going a few miles down rd. to San Pedro Yolox – nice habitat

14 July cont'd. but sporadically disturbed - the lower we got, the more, second growth. Oaks on top then pines to ~ 2640 m. then transition to oaks again w/ rhododendrons ~2540 m. then drove N to summit & beyond, looking at rockfaces Paepfuss claims have good salamanders, trying to get a search image - this till ~6 PM. Still raining. Then ~~[illegible]~~ to pull off & feed vates until dark - it ~~[illegible]~~ stopped raining. Back to Machin for dinner in the kitchen of the eatery watching the señora prepare the meal on a raised table fireplace. Cold. Decided not to set nets. Walked the rockface on E side of rd ~ 100 yds S of summit of Cerro Pelon w/ John finding 2 lg Pseud. "lumpy" sitting on a rockface. they must use the cracks in the rock during the day. this till ~ 9:15. Then N 1 mile & John walked the rockface on W side of road finding nothing but the rain which had started again - this till 10:30. Then down to chapel 30.5 mi S Valle National for the night.

15 July

Machin, Dox. vacinity

Up at the unbelievable hour of 10 AM. Drove up to Machin for breakfast. Then S for gas. Arrived Ixtlán ~ 12:15 but gas station not open yet, so went always down rd. to process John's animals. The S side of Cerro Pelon

Net site

15 July, contd. is much different in aspect from the N. Forest is heavily cut and what remains is mostly pine/oak – unlike the lush, diverse, almost pine-free N slope. The road drops to Ixtlán which is in a valley heavily disturbed and cultivated. A nice little river just N of Ixtlán for setting nets. Gas finally ~ 2 PM then back up to Maclin where we walked a small rd on E right below Maclin, finding thorion. Then back down to chapel & John looked some more there. It cleared ~ 6 PM & we drove back over the summit taking pictures & marveling at the vast. Dinner, then up to San Pedro Yolox Rd to a likely net spot, but had thick high underbrush. Returned to Maclin & set net along the rd we walked. Up 8:45 PM. Mist but no rain. By 9:45 nothing so went w/ John (who had walked road cuts on other spur finding 4 P. lumpy) to do rdcuts on SP Yolox rd. This till 11:30 resulting in 4 more P. lumpy. Back to net – nothing. To bed then.

16 July, ~~Sat~~ Maclin, Oax vacinity

Up ~ 8:30 after poor nights sleep that saw the first tormenta yet. Caught up on notes in the sun of what might be a fine day. Intestinal trouble did not last long. John pickled herps, then a late breakfast. Drove down the Breckia 60

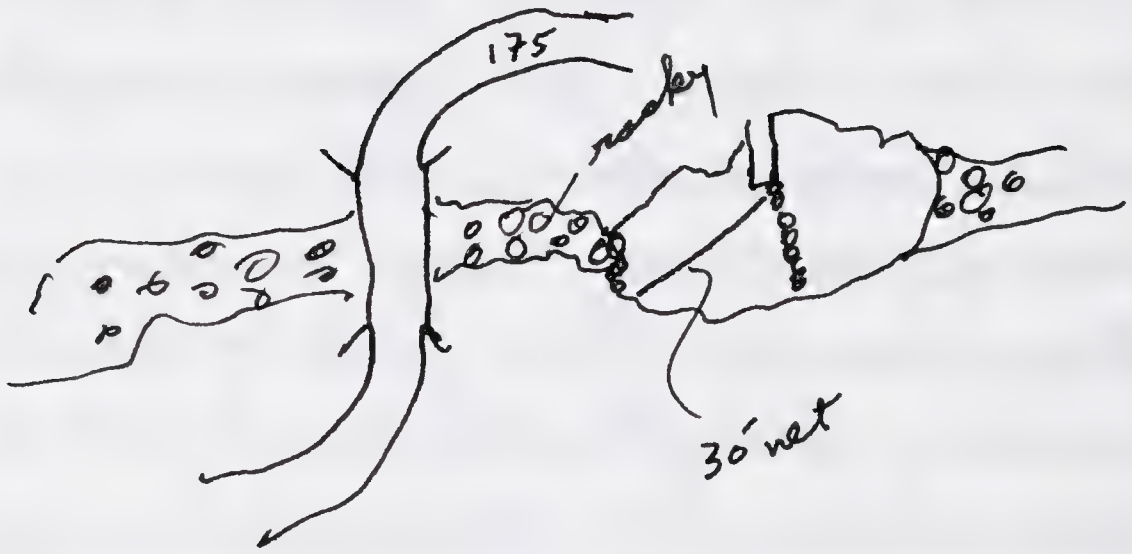
16 July, cont'd. Comaltepec rd. A fine stream crosses this 0.6 mi down - fine for bat nets as a valley funnels up the stream. Drove further down to a bus stop & John spent a couple of hrs catching salamanders in the rain - a fine piece of forest here. Many unicolor jays playing around. Then back to Machin for dinner. Had planned to set nets at the above stream but torrential downpour until 10:30 & much wind dissuaded me. We looked at a few rockfaces but found nothing. Back to the Machin campsite for bed ~ 11:15.

17 July

Machin, Oax to Ixtlán, Oax

Up ~ 8 & breakfast. Packing things up we left for Oaxaca. Stopped on rd ~10 we met 2 people from Texas (one teaches at Trinity) who were collecting mice on the Vista Hermosa - Cerro Pelon transect. Many Peromyscus in here which replace each other altitudinally. Also several sp. of Reithrodontomys Tylomys, Nyctomys etc. Proceeded on to Oaxaca for gas, then out to Mitla for a salamander locality. Spent ~ 45 min at the ruins (after a roadside PB & J lunch). This area is very dry. Drove on up a rocky rd. towards Ayutla but it was too late to go all of the way.

Net site



17 July contd. Drove back over the mts. to Ixtlán for dinner in the only eatery in town - opposite the church - which only had beer to drink. Then set a net on the stream 1.0 mi N of town off of 175. Net up just at dark (7:45) & a bat seen flying overhead. John left to rd drive. A few minutes later another bat flew up to the top framed then zigged over the net. Nothing caught by 8:45 when John returned so I went w/ him on another pass until 9:50 (getting nothing) & on return found a ♀ Sturnira in the net. Net down at 10:40 & we went off to look for a place to sleep. Tried several dirt roads by the large bridge down 175, but nothing. Finally, in frustration, we pitched the tent on the side of 175 & fell directly to sleep.

18 July Ixtlán, Oax. to Sola de Vega, Oax.

Up 8 & packed up & drove off to Oaxaca. Just short of the city we stopped at a stream to wash up & prepare specimens. Then in to town to find the banks closed. A rather nice city. Then drove out to Sola de Vega (175-131) & had a much needed lunch at one of the many little restaurants there. Then drove 12+ mi up 131 into mts to a salamander roadcut. Very

3 July, contd. dry. Back ~ 2 mi we walked down along a ridge rocky w/ limestone. Several very shallow caves - out of one flew 2 bats but could not find more. This till 5 PM when a thundershower moved in (very impressive to see it move up the valleys) then down to Sola de Vega ~ 6 writing notes. Began running about then down there. Dinner at same eatery - this is apparently the "truck-stop" in town & no doubt is the best — this says little. Then back up to walk limestone & roadcut in dark, finding only a leptodactylid in former. Back down rd ~ 2 mi S of S. de V. at wide pullout to set up tent. To bed ~ 11:30. No nets set. River in town might be good - but big.

July

Ariban

Sola de Vega, Oax. to Matias Romero, Oax.

Up at 8, packing car, then drove to Oaxaca to cash checks, etc. This done by 12:30. Then on to Tehuantepec stoping before Mitla for lunch and at Mitla turnoff for gas. The road passes thru very mountainous areas that are very dry w/ cactus. This eventually gives way further south to nice acacia scrub. At La Reforma tried to get up into Mts above Sta. Maria Ecatepec to find thorius for J. Hanken, but 6 mi beyond the dirt rd to there (1.2 mi N of town) came to stream ford that John's car couldn't cross.

July, cont'd. So returned to 180 & continued to Tehuantepec. The city is approached from a pass in the mts across a wide plain of acacia trees & cactus that is more cultivated than in the mts. On the W side of the city the acacia disappears & is replaced by tilled land on a very wide & windy plain ~ 20 m. above sea level. The turnoff to Matias Romero climbs into the hills to ~ 300 m. The hillsides have nice forest w/ cactus, giving way on top to tilled & grazed land w/ many ponds. ~ 1 hr before dark saw bats flying although a large bird of prey (vulture?) was seen flying at the same time. At the top of the hill many bats seen flocking high feeding. Got to Hotel Juan Luis ~ 8ish for a room $130. Good dinner & shower then 1 hr. each washing clothes. to bed by 12.

20 July

Matias Romero, Oax vacinity

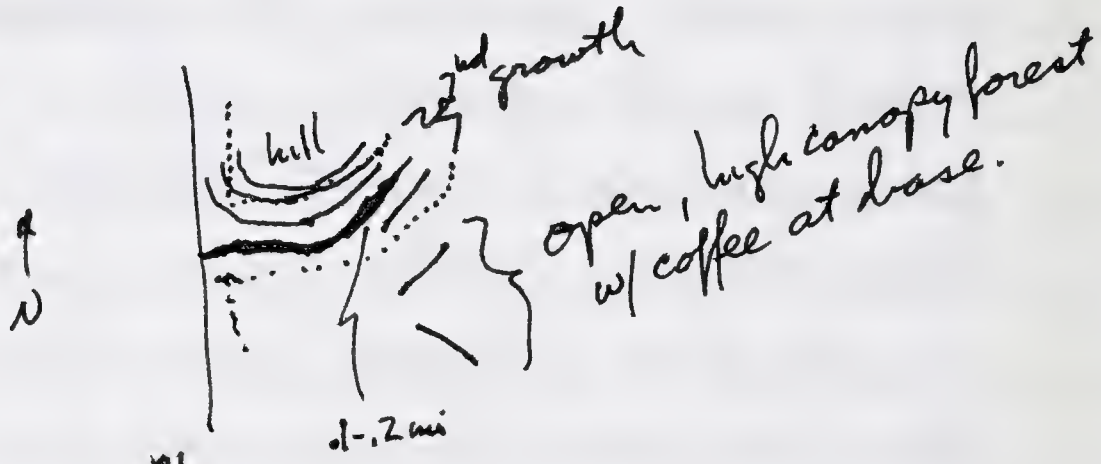
Up ~ 8 & packed up drying clothes and, after breakfast, headed out to Sucilapa, Ver. about 40 mi N to see about getting up the Rio Chalcapa to a salamander area. The town is a fairly thriving riverfront in the Caribbean lowlands — much pastureland & cattle. Could not go any further from here, so went ~ 20 mi N to a road to

20 July, cont'd. Oaxaqueña which on the map is on the main channel of the river, a straight shot to the hills the salamanders are known from. The road is ~ 40 mi to the river, very rutted, passing thru rolling hills of cows until reaching the ~~floodplain~~ river plain where much standing water is. Many groundDoves & smooth billed anis. The last 100 yds to the river were very muddy & we clopped grass for traction. When we got to the river we discovered that the "town" was on the other side (as was the ferry) and that same consisted of 2-3 buildings. Decided not to try to rent the one boat apparent for the trip upriver. Frustrated, we made the return drive, reaching 185 ~ 5 PM. Drove back to the Hotel, getting a room & dinner, then out to road drive. The most productive area was ~ 30 mi N Matias Romero, yielding a Clelia & Boliteglossa among other frogs and snakes. Returned to motel ~ midnight for sleep.

Matias Romero, Oax Vicinity

21 July up late and processed animals until nearly noon, then a late brunch. Went

Nets:


hill
re-2nd growth
open, high canopy forest
w/ coffee at base.
N
.1-.2 mi
Rte. 185
M. Romero
23.9 mi.

21 July, contd

S of town a ways to finish up at a little pulloff ~4 mi S M.R. Potential net site — second growth set back fm rd fronting fields & a grove of fruit trees. Then did some rock turning to pass the pm finding nothing. Dinner at the motel. Then road drone again over the same stretch getting a different suite of snakes. Back by 1AM & to bed.

22 July

Matras Romero, Oax. Vacinity

Up late again & more processing and a late brunch at ~12. Then drone N to check out the area Villa's locality records suggest should be productive (15-25 mi N M.R.). Saw several good places: 17.2 mi N - second growth hillside
20.2 mi N - " "
22.8 mi N - clearing w/ fairly open forest w/ coffee behind.

Finally decided on a spot 23.9 mi N Matras Romero where a small dirt rd. runs E up the side of a small hill. Second growth along the rd (1 net) and open forest planted below w/ coffee behind that (2 nets). Cut poles & lanes and poked around a bit, then went up to look at Jesus Carranza, ~~Reg~~ buying a lg Ctenosaura on the way (30 pesos). The town is dumpy and

2 July contd. less thrusting than Suchilapa. Back down the road to blood lizard & do something with the carcas. Then (5:30 PM) back to motel for a room & dinner. Drove back to wet site as it began raining at M.R. Raced all the way there, but lightly at site. Nets up by ½ hr past dark, catching a Carollia before the 1st was ½ up. Seven more caught by 9:30 (one killed & discarded). By then the rain had increased & was coming down consistently, depressing the activity. Went rd driving, catching another Clelia & a live Bothrops. Back at the nets at 11 PM finding only the Artibeus toltecus (?) in the net. Took them down as the rain showed no sign of letting up. All the rain had softened up the road and we spent ~45 min going the last 50' out to the road. Finally made it & drove back to motel, stopping at M.R. to buy cokes. In doing so we ran off a culvert and spent 20 min jacking up the car & putting boards under the wheel to get free. Back at 1:15 AM and to a much needed sleep.

23 July Matias Romero, Oax. to Tuxtla Gutierrez, Chias.
Up late, processing animals and, again, a late brunch. Down the rd to get mileage to

23 July, cont'd. rest site then back to our pullout to finish processing. Finally left at 4:30 PM driving S to La Ventosa Jct for gas then E on 190. The acacia scrub & wind persisted for some miles, finally getting more mesic as we climbed slightly out of the plain. At the jct of 190 & the rd to Tapachula (200) began climbing into hills with fine forest. Pines ~ 850m. after passing into Chiapas. Then down slightly into a broad plain of rolling, grassy hills. This, with mts at intervals, persisted to Tuxtla Gutierrez where we got a sleazy motel (Paraiso) just W of town ~ 9:30. Wrote up field notes and then to bed.

24 July

Tuxtla Gutierrez, Chiapas Vaccinity

Up at 7:30 then off thru Chiapa de las Casas where we had a 9th breakfast at the hotel. Just the other side of town the rd begins the climb up the mts to San Cristobal and along here we took Rte 195 towards ~~Tapachula~~ Villahermosa. This rd winds thru fairly flat land for a while passing several promising streams and a few small towns, then climbs thru scrubby forest finally getting into pines. On the N slope is very lush tropical forest w/ tree ferns on a very steep slope. We stopped at several

24 July, cont'd. spots along here finding only tadpole at one on the N slope. Soyala for dinner then rd driving till 10-11 PM then camped on banks of Rio Laja - a very nice stream.

25 July

Tuxtla Gutierrez, Chis to Comitan, Chis.

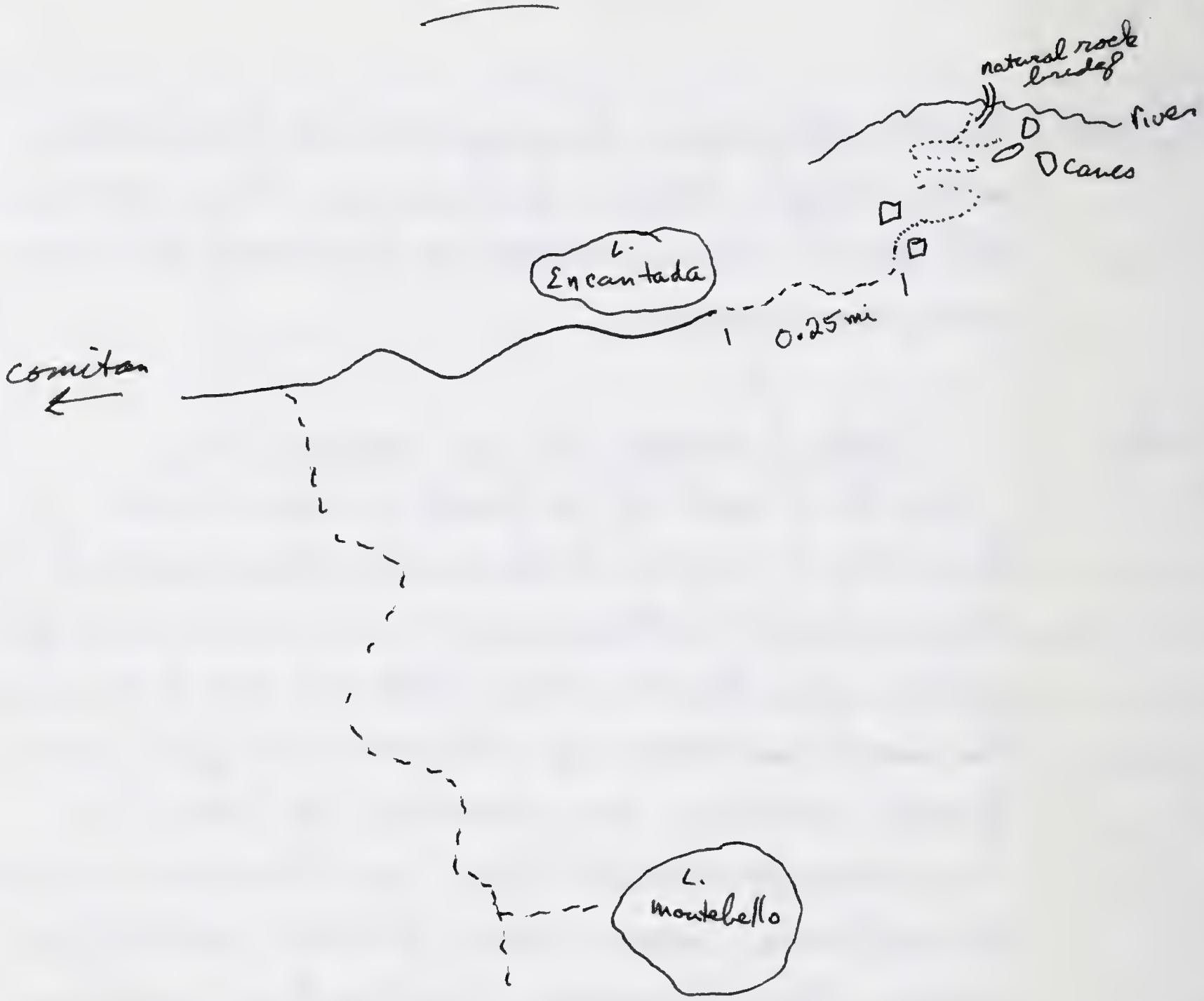
Up by 8 and off to Tuxtla to do chores. Arrived ~10 and had brunch then cashed checks, bought batteries, map & PB, and sent off post cards. About noon, left on 190 to Comitan. The road continues up in the mts into fine pine forest, reaching San Cristobal at 7000'. Fine pine parkland SE of San Cristobal right on highway. Some rain. Habitat much the same, this dropping in elevation, picking up some hardwoods, by Comitan. which lies in a broad cultivated valley. No gas in Comitan so had dinner & back to last gas some 30Km N. Back down & out rd to Monte bello finding only Bufo marinus. Back in Comitan at 8:30 PM getting a room in the Hotel Morelos. to bed by 10:30.

26 July

Comitan, Chis. vacinity

up at 8:30 and breakfast at the Hotel Internacional. Then drove out to the Lagunas after driving further E to last gas in Mexico (190 drops into an arid valley E of comitan). Had lunch at L. Montebello

Caves


natural rock bridge
river
caves
L. Encantada
0.25 mi
comitan
L. montebello

D. Stanley

1977

26 July, cont'd. Then saw L. Pojoj. Then back to end of paved rd & ¼ mi beyond & parked. Walked down hill towards river to caves. Many caves here w/ lg rooms but also many people (candles lit throughout). No bats. Drove out Lagunas dirt rd a ways finding a coke at Tzisco (?) Then returned to Comitan by 7:30 PM for room in H. Internacional. Jo'n road drove to Lagunas (finding snails only in caves) & down E towards boarder (finding frogs). To bed ~ 12:30.

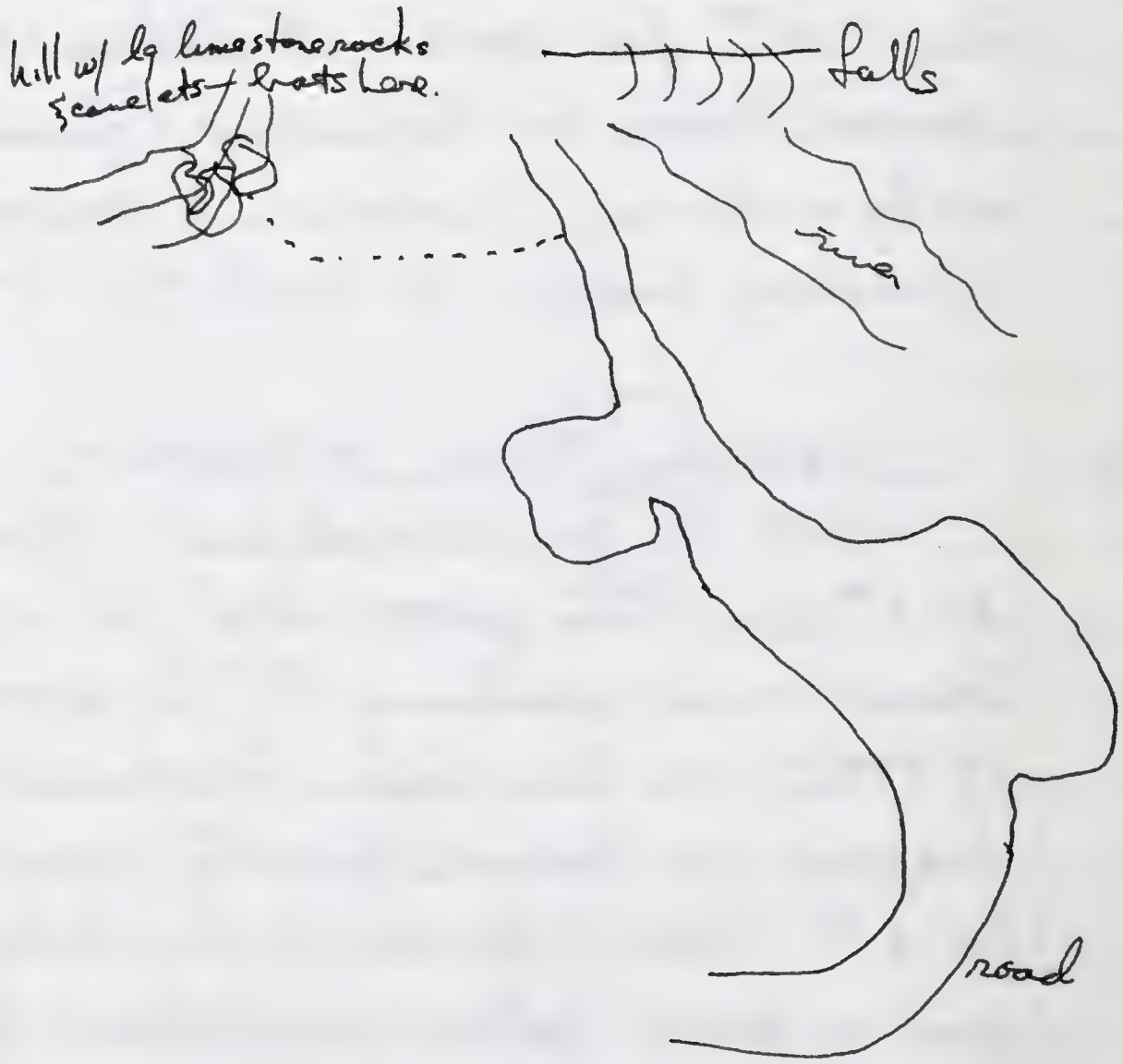
27 July Comitan, Chias. to Pichucalco Chis.

Up at 8 for breakfast then drove W to 1st gas. Then processed John's frogs. Drove on W reaching 195 by noon w/ lunch of PB & J on Rio Caja. Continued on 195 dropping into lowlands finally reaching by 6 PM. Room & dinner at H. La Selva, the only game in town. John road drove but got nothing. The moon is nearly full.

28 July Pichucalco Chis. to Palenque, chis

Up at 8 for breakfast then on down 195 to Villahermosa where we had a tire fixed that went flat yesterday PM. Left at noon driving out 186 to Palenque. Arrived here

Bat site - Cascada Mizola



8 July, cont'd. for late lunch slightly before 2. The rd fm Villahermosa passes thru a broad plain now in grass for cattle with only scattered bits of forest. Went out to ruins in very nice forest & spent ~ 2½ hrs there. Then got a campsite at Hotel Nahatan on Ocosingo rd and had dinner. Rd drove up to ruins & up Ocosingo rd but nothing due to moon. Back for quick swim & to bed by 10 PM.

29 July Palenque, Chis. vicinity

Up at 8 for breakfast at restaurant up the rd from Hotel. Then drove out Ocosingo rd, after trying to cash check in town (electricity out - try later). Went to Cascada Mizola 12.5 mi N of Palenque on the Ocosingo rd. Looked around here some & John found a cave w/ bats. Net over entrance & scared them out, loosing one in the process. Look to be Rhoterys. I processed while John looked more. Returned to town ~ 3 PM but bank closed. Back out Ocosingo rd to another area w/ nice forest & John looked here till dusk finding tadpoles. Then dinner at Hotel, rd driving same rds w/ same results & camping by 10 PM.

30 July

Palenque, Chis. to Ocosingo, Chis.

Up at 8 for breakfast then out to ruins. Spent 'till 2 PM around here finding lizards & one Sauclisca in the fine forest surrounding the ruins. Processed these after a light lunch then on out Ocosingo rd. This rd is paved for 42 mi S of Palenque where they are building a bridge. Then about 5 more mi. paving leaving ~25 mi unpaved to Ocosingo - time ~ 2½ hrs driving. The Mts here are low getting up to 1050m. at Ocosingo. Most of the forest has been cut leaving extensive swaths of second growth everywhere but on the steepest slopes. Stopped of at Agua Azul falls a magnificent sight ~ 56 km S Palenque. Dark by time we reached Ocosingo so ate for dinner & then back 6 mi N to borrow pit for a campsite. Processed 2 snakes we had found DOR on the way up & to bed by 10.

31 July

Ocosingo, Chis. to Tapachula, Chis.

Up at 7 & in to Ocosingo for breakfast. Then on up rd another 50+ miles to PO E of San Cristobal (2½ hrs). The rd has some nasty spots but no problems. The habitat, tho, is similar to the part N of Ocosingo until reaching the fine pine forests ~2000m. Here tho

July, cont'd. towns are more numerous but there is some reasonable habitat near 190. Drove West 190 to Arriaga turnoff then down to 200. The rd to Arriaga descends the front range steeply thru exquisite but inaccessable forest w/in sight of the pacific finally reaching the Mildly lush coastal plain. 200 runs along this plain which is heavily disturbed except for one patch 30Km NW Hixutla. Into Tapachula by dark & a room at the swank Motel Kamico as are have only travelers checks left & the cheapys won't take them. John rd. drove Rt. 16 and found one Micrurus and a large coral snake mimic Lampropeltis DOR. Bed by 12.

1 Aug. Tapachula, Chis. vacinity

Up at 8 & in to town to change money & post mail, then brunch in a chinese café (many of these here) and on to the Guatemalan embassy to get our visas. The consel told us a xerox of the Mexican car permit would do in Guatemala, so got one of these. Decided not to try crossing the boarder today so went out Rt. 16 to hunt. This road winds up from a river valley into coffe plantations. Poked around

Aug (cont'd). in several places finding ants & leptodactylids. Then back to town & got a motel room at a cheap one then dinner at a hamburger joint. Rd drove Rt 16 getting only leptodactylids along the road, until 11:15h then back & to bed.

2 Aug. Tapachula, Chis. to Guatemala City, Guat.

Up rather late while John processed specimens and then breakfast. Headed out to Talesman Bridge & the boarder, reaching same about 11. No hastles but it costs some modescure fees to get into Guatemala. Then proceeded down CA2 to Escuintla following the rolling hills at the Wedge of the Pacific coastal plain. ~~Lunch~~ Supper (early) at Escuintla and then up CA9 to Guatemala City then some fine mountains. Finally found a motel-whorehouse where we got a room (only!) and went through our specimens before retiring about 10:30.

3 Aug. Guatemala City Vacinity

Up by 8:30 & packed car. Drove to Zona 1 & had breakfast "downtown". Then went next door to Pan Am & bought my ticket home for tomorrow. Then down to

J.O. Straney
1977

3 Aug; (cont'd.) Banco de Guatemala to change money and back uptown to browse in bookshops. Drove out to John's friends, the Drs. Dix who live just out of town. Had lunch there & talked for a while, then in to city to INOFAR headquarters to see about permits. Is a complex business but only real necessity is a letter from Wake claiming we're not out for the money. Then to a handicraft center & browsed before returning to the Dix. Walked for 1hr in cypress woods behind their house. A late dinner then to bed.

4 Aug. Guatemala City, Guat. to Berkeley

Up at 7:30 and finished packing then off to airport. Arrived there by 8:45 & checked baggage. Then a quick breakfast & said goodbye to John. Plane left on time at 10:25. Flew over Chiapas for a bit, then out to sea & back over Oaxaca. Flew directly over Volcan Popocatepetl & Mexico city. Customs in LA. Arrived SFO 4:55 PM. Called Sam Sweet at Museum & got a ride home.

21 Aug. Berkeley to Port-of-Spain, Trinidad

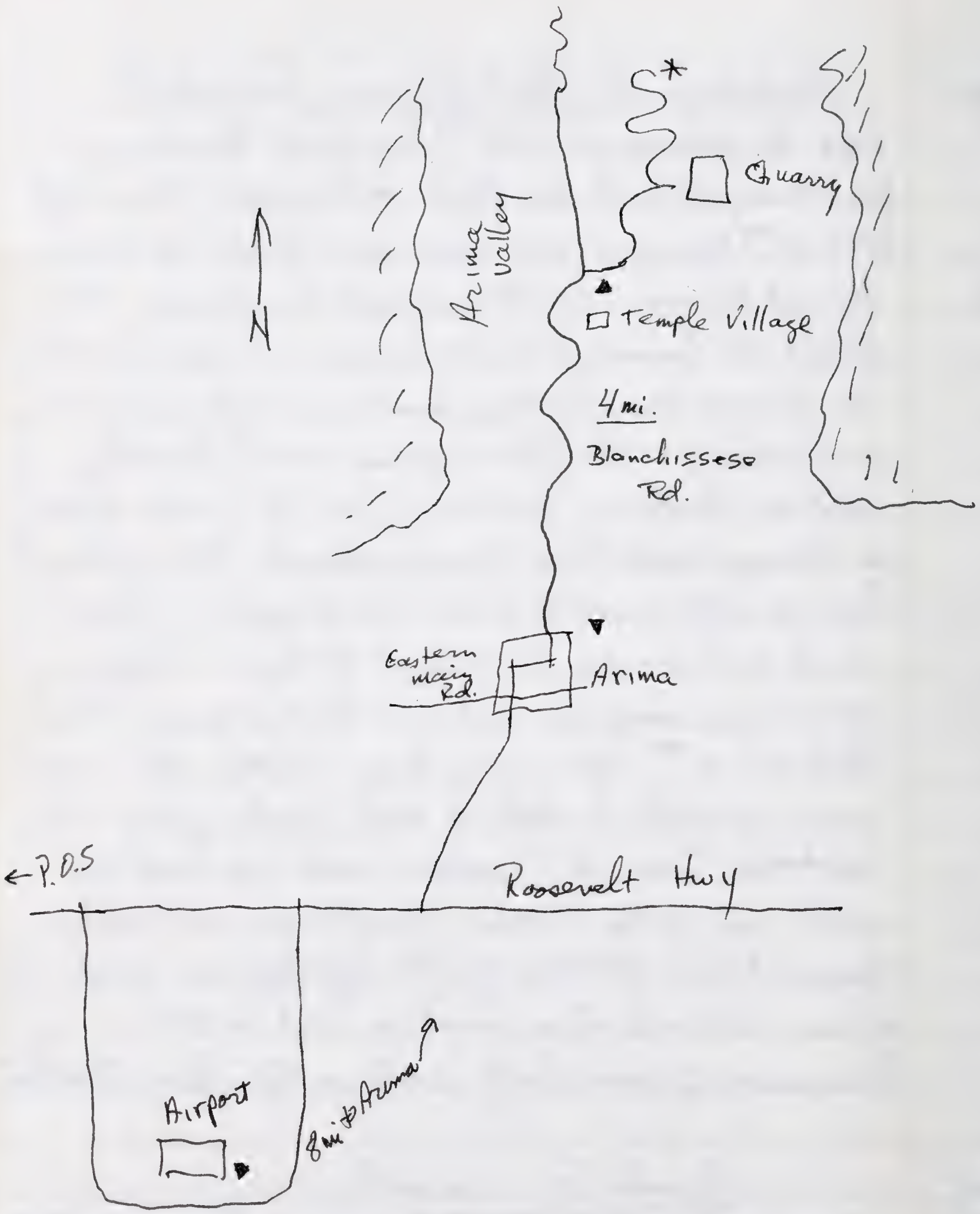
Left the museum at 7:45 PM w/ Carla Markman for SFairport and our flight to Trindad. Plane left at 9:30 PM by way of Las Vegas and Tampa to Miami.

22 Aug. Arrived Miami 7:17 AM and had breakfast. The flight to Trindad (Eastern) was not until 3:55 PM so fought sleep sitting, lunching, walking, reading and talking until then — some wait! Finally left on Eastern. Landed 1st in St. Croix after a bumpy ride thru thunderclouds. The island has 3 hills visable from the airport. Then dark and on to Antigua & St. Lucia before arriving — very worn out - at Port-of-Spain ½ hr late at 10 PM. One of my bags (clothes, etc) was lost so while I delt w/ that, Carla got us thru customs. Gary McCracken met us and we went on up to Simla, the former Wm Beebe Tropical Res. Station of the NY Zool. Soc. Had a rum drink then went to bed in our luxurious 3 room + bath suite in the "Island Quarters".

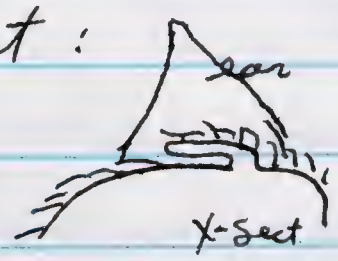
23 Aug. Simla, Tr. Vacinity

Up at 1 PM not completely rested from the flight. Gary took us to the University of West Indies where we did banking (only bank open past noon is here) and saw his electrophoretic set up. Then went shopping at shopping centre on Roosevelt Hwy

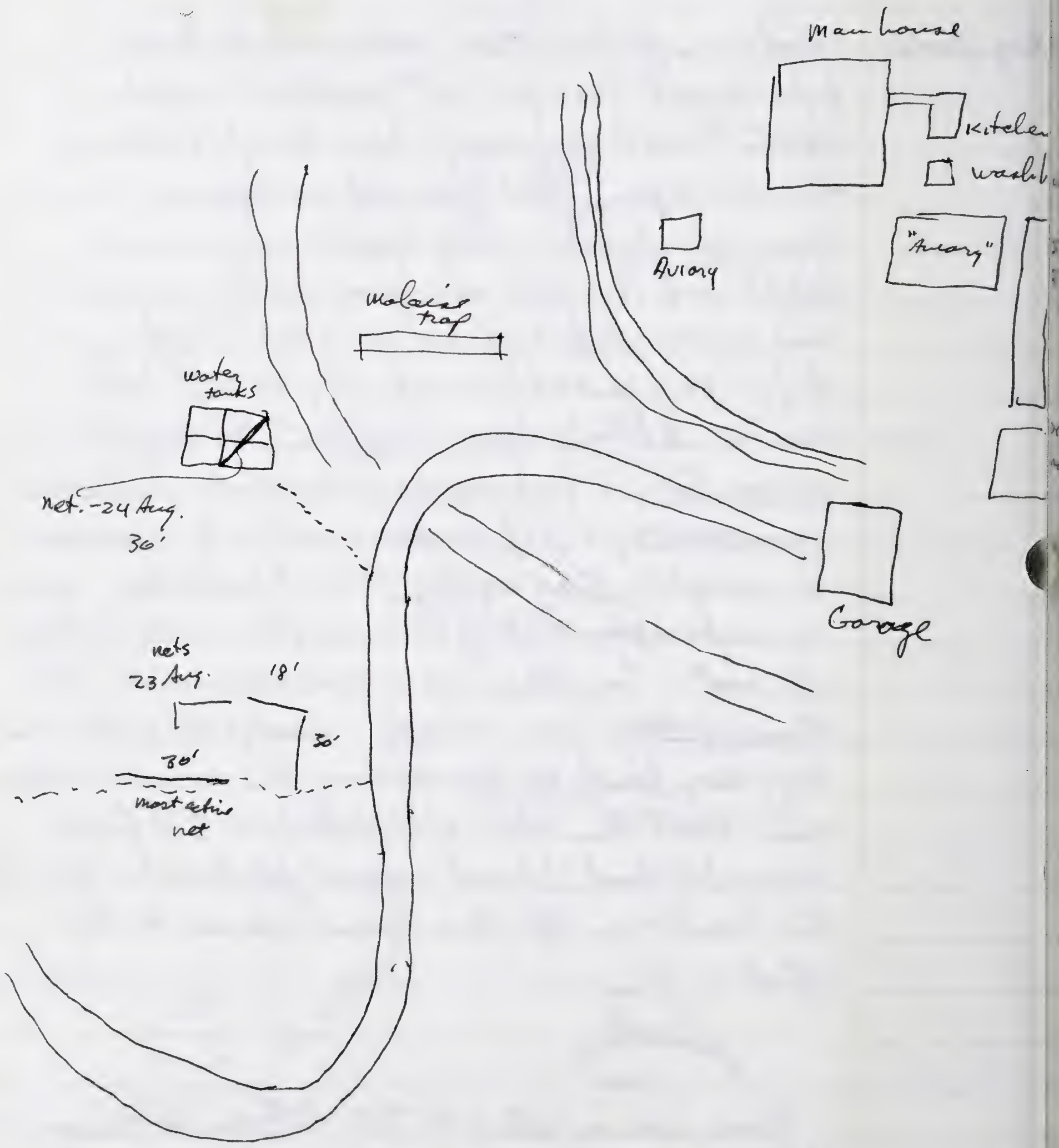
Simla


N
Arima valley
*
Quarry
Temple Village
4 mi.
Blanchisseso Rd.
Eastern main Rd.
Arima
←P.O.S
Roosevelt Hwy
Airport
8 mi to Arima

3 Aug. (Cont'd.) Food is expensive. Then returned to Simla for a snack, then ~ 5:30 PM walked ~ 100 yds down Simla "Driveway" to a trail cutting thru an open floored flat area of overgrown Coaco plantation. Set 3 nets (see reverse) before dark running into some wasps as we did. Saw one small bat flying at 5:53 PM. Nets up by 6:30 - just at sunset. By 10:30 PM had caught 2 1 Phyllostomus hastatus ♂, 16 Carollia perspicillata, 1 Micronycteris megalotis, 3 Artibeus jamaicensis, 2 A. lituratus and 3 A. cinereus in roughly that order. The P. hastatus came in right after dusk & was caught in the bottom of a net. Carollia were omnipresent; the Micronycteris was easily identified in the hand by the band connecting the ears - under this band the skin was unhaired & I first thought that I had ripped the skin on the head - in life this band seems to lie flat:



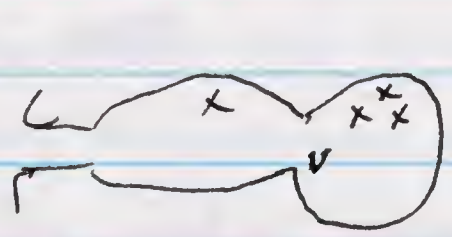
There was a lull ~ 9 - 9:45 & then Artibeus lit. & jam. hit the net together making much racket, attracting more in. Some minutes later A. cinereus hit, also vocalizing to beat hell. The moon is new & past 1/4. On reckoning


Main house
kitchen
washh
"Aviary"
Aviary
Malaise trap
water tanks
net. - 24 Aug.
30'
Garage
nets
23 Aug.
18'
30'
30'
most active net

23 Aug. cont'd. to our rooms, noted that the P. hastatus had eaten out of the bag. Considering the trepedation we approached him at the nest, we sorrly missed him. Read for a brief while then to bed ~ 1PM.

24 Aug. Simla, Lopinot Cave & Simla Vacinity

Up at 8AM & quick breakfast then out w/ Gary to Lopinot Cave in Lopinot valley, the next one W. the trail to the cave is past Lopinot ent its 150 yr old Conde de Lopinot estate but I cannot begin to give directions to it. It is 1-2 mi up the E side of the valley. Saw a Sciurus on the way. Got the ~10 & Gary went in for ½ hr to census P. hastatus then we went in:



Corollia were everywhere. The hastatus were in harems as indicated with lone males scattered around. Very impressive. Finally back at the car ~ 11:30 & stoped at the Lopinot Manse for a quick look - many lizards. Then to UWI for a moment & to Airport to rent our Hertz car. Returned to Simla &

4 Aug. Contd.

had a snack and nap until 3 PM. Putzed around then went ~ 4:30 to set net over the water tank Dr. Price suggested we try. Much trouble with the net (tangled - & a new one!) but finally got one up ~ 7 PM. Carla then went to make dinner & I pulled Carolia out until ~ 9 when I went up to eat. Took nets down ~ 10 PM having got 11 Carolia, 1 Glossaplaga sp. longirostris (?) & 1 Pteronotus davyi - the naked backed Mormoopid. A nightcap, read a little & bed by 11:30 PM but not to sleep until early AM.

2 & 5 Aug.

Simla Vacinity

Up at 8:30 & quick b'fast then off to airport to meet John Cadle & Mary Ann Rogers' plane from Guatemala ~~the~~ via Caracas. The plane was 1½ hrs late & they were not aboard. We had been worried by lack of message from them so sent a telegram to Woke outlining the situation. Back to Aruma to find stores closed for lunch So back to Simla for lunch. Took an unintentional nap 'till 3 PM & decided we had to process bats. This took until 6:45 PM so decided not to set tonite & read & relaxed. To bed by 11.

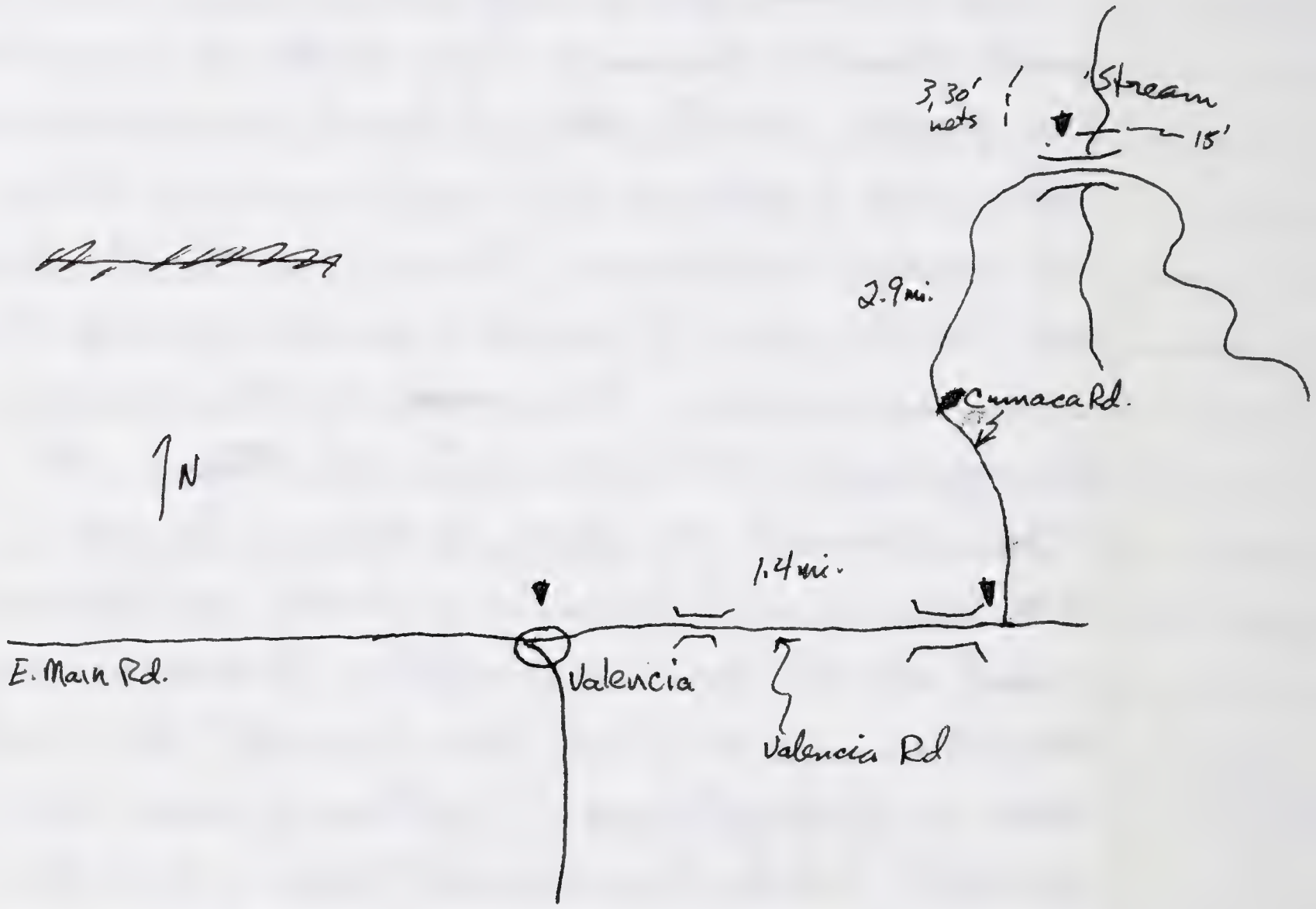
O. Stravey
1977

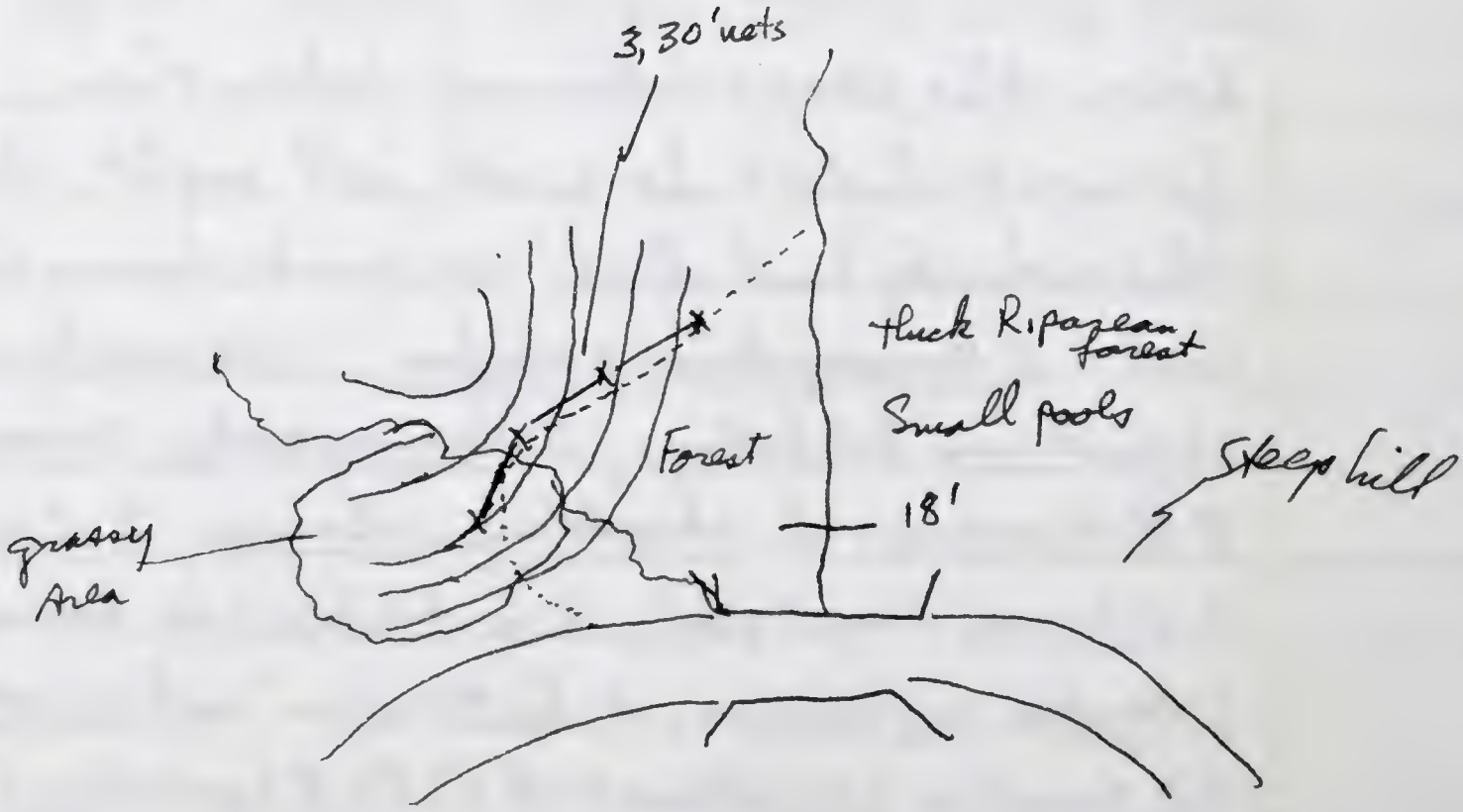
26 Aug.

Simla Vicinity

Up at noon after a bad nites sleep. Leisurely lunch then to Arima to buy batteries & machetes. The people at the store did not know what the latter were & after a bit we discovered that we wanted "cutlasses". Drove up the Blanchisseuse rd. to the crest & found a good net site, then returned down this ~~road~~ windy, narrow, bumpy rd. to Simla & lunch. ~~Then~~, At 4:30 returned to 10 mi N Arima by rd. to a logging rd branching to W off of main road at the crest of the hills. A microwave complex is just E of this turnoff. We had seen a Saccopteryx (?) flying here ~2:30 PM so set 4 nets by sunset here - 2 in forest & 2 where the ridge narrowed to a pass. ~7 checked the latter 2 nets & pulled out bats for a solid 1½ hrs until things quieted down. The vespertilleonids taken then. The former 2 didn't do much all night. By 10 PM. the activity had died, so took down nets. Got: 1 Micronycteris reicifori, 1 Glossophaga soricina, 1 Vroderma bilobatum, 3 Vampyrodes caraccioloi, 8 A. cinereus, 2 Chiroderma villosum, 3 A. jamaicensis 2 S. lilium (small grey), 2 S. tildae (lg brongy), 1 Myotis nigricans, 2 Eptesicus "melanopterus", 40 Carollia (10 released - all ♀) & 2 P. hastatus (released).

28th Aug collecting site





26 Aug cont'd. Returned to Simla by 11:15 to find Mary Ann waiting with a long story – will meet John again in Guatemala on 5 Sept. Talked for some time & to bed late.

27 Aug.

Simla

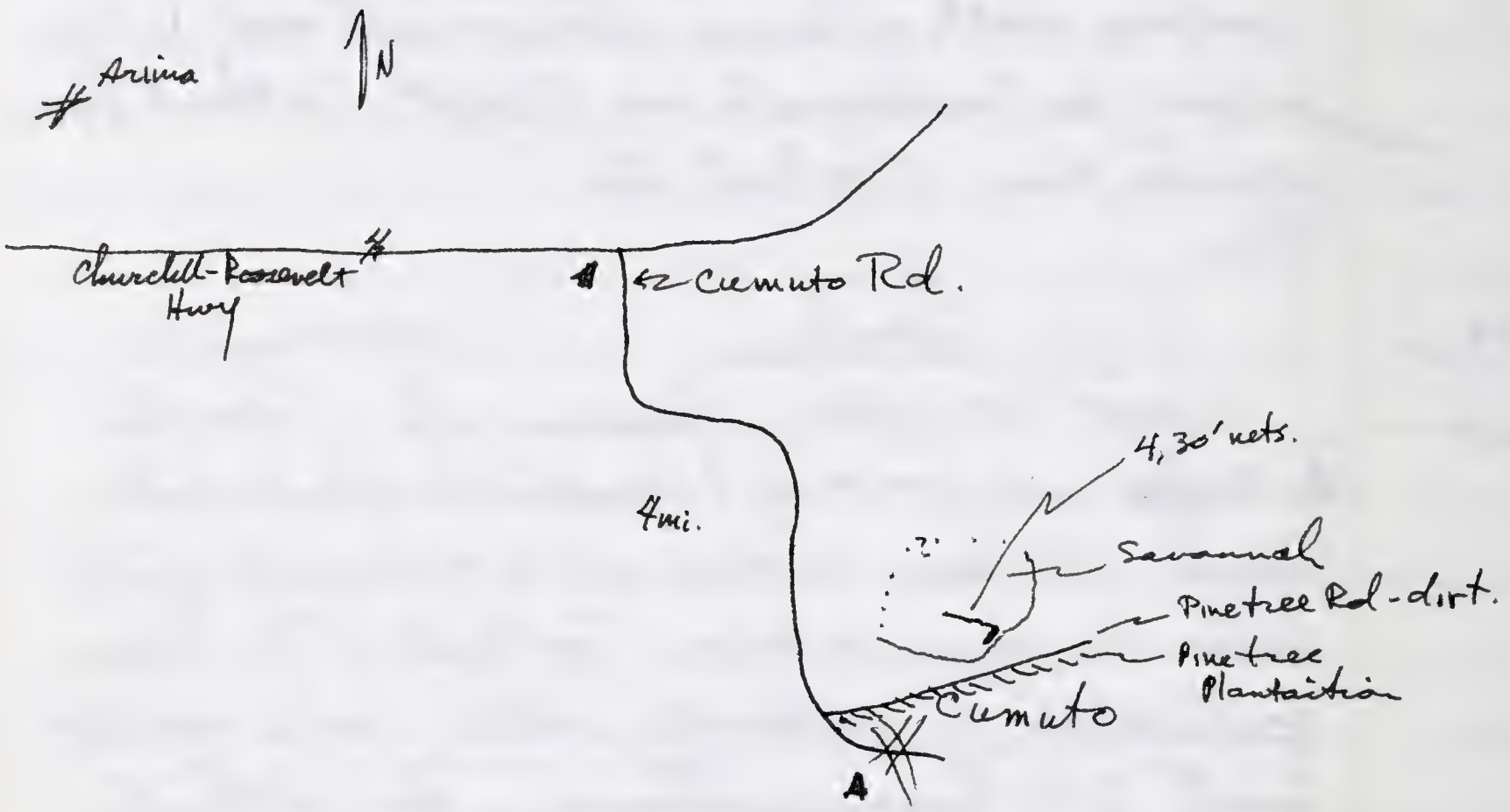
Up at 10 after sleepless nite. Charles E. Moler was visiting & wanted to photo bats. Spent 'till noon on this while the girls did some shopping in town. Talked w/ Dr. Price for a while re collecting sites. Carla started lunch & we began processing our catch. Lunch ~ 3. By dark we were not done, so the girls went out to set traps while I finished, then wrote notes. They returned w/ a snake & then rd drove for a while. to bed ~ 11:30 to read a while.

28 Aug.

Simla

Up rather late & a leisurely lunch. About 4 PM drove out to an E-W running valley in the Northern range which Jack thought would be good. See map facing Very nice little stream w/ medium sized pools & good forest boarder. A hill to the E had a trail going along it ridge, esp in the woods part, an excellent fly way. Set 3 nets on hill - 2, 30' in forest, one in open grassy area - & 1, 18' over stream.

Arepo Savannah



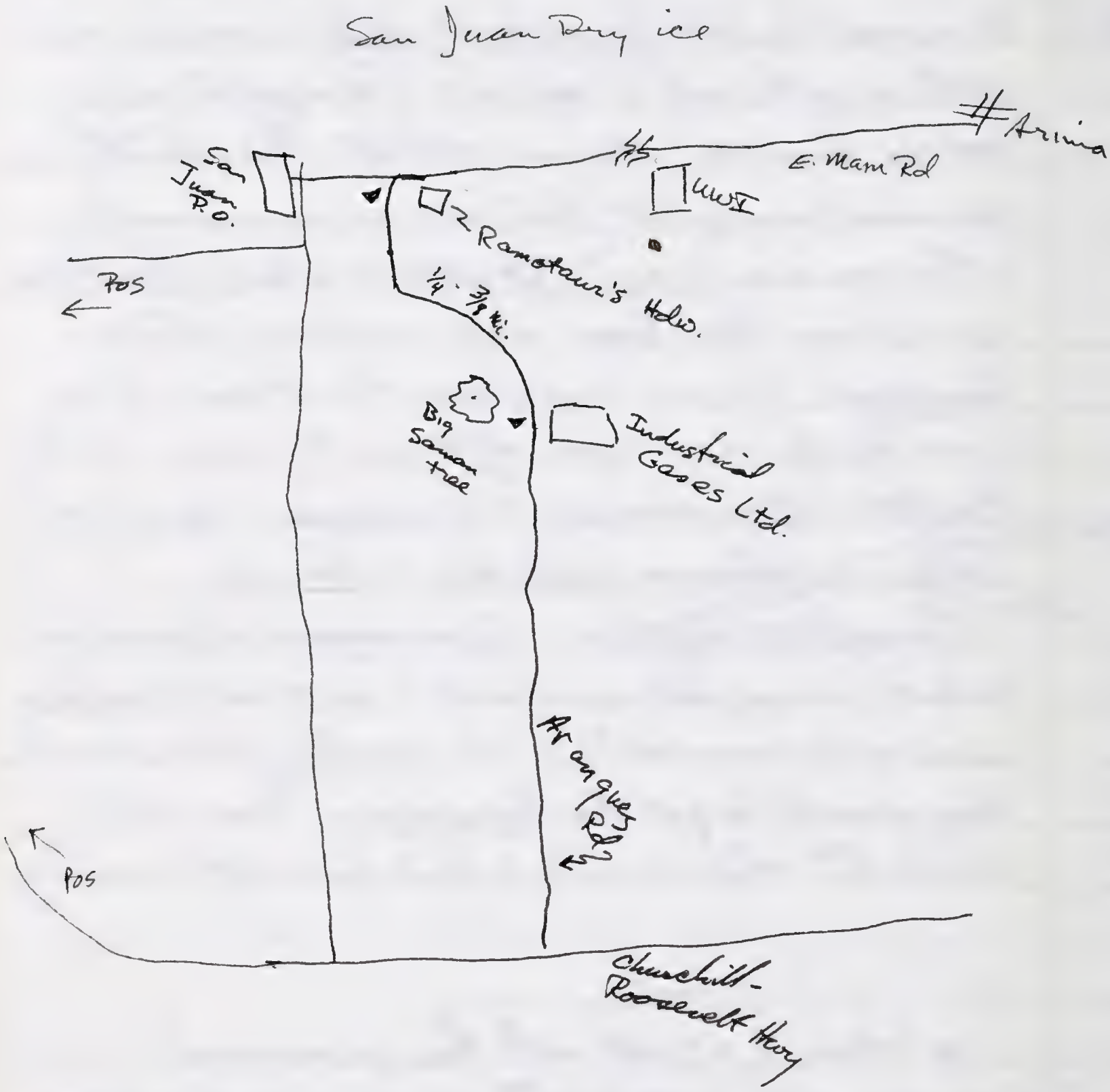
28 Aug, cont'd.

It rained heavily for a short while as ~~we~~ we were setting up the nets & ~~the~~ Gnats & Mosquitoes came out in droves, staying all nite. The activity was never very great, but more so, surprisingly, in the open area & right at edge of forest. The stream net got very little. Saw what must have been a Vampyrops flying high over the stream ~ ½ hr into the nite when it was still faintly grey in the sky. Caught: 3 A. jamaicensis, 4 A. cinereus, 1 Vampyrops helleri, 1 Vroderma bilobatum, 3 Sturnira ~~lilium~~, 1 Glossophaga soricina, 1 Choeroniscus intermedius (instantly recognizable - snout much longer than Glossophaga even w/ the same tail) & ~11 Carollia (all released). Very pleased to get the Choroniscus. Down nets about 11 PM then home & to bed for a little reading.

29 Aug.

Simla

Up latish & a quick lunch then processed last nites catch. Left 4:30 PM afternoon for Aripo Savannah. This is a strange habitat in the N Central Valley. A grassland boardered by scruffy woods (2nd growth?), they are flooded now in the wet season leaving close packed hussocks of grass seperated by channels some 6" deep w/ water - mud deeper than this. Set 4 nets in a long "L" w/ short sid ∥ to forest edge. Used poles we brought along & one handy tree - there are few to be had here. Again a shit but drenching


San Juan Dry ice
Arima
E. Main Rd
San Juan R.O.
WWII
2 Ramotar's Hdwd.
1/4 - 3/8 Mi.
POS
Big Saman tree
Industrial Gases Ltd.
Arouca Rd
POS
Churchill-Roosevelt Hwy

29 Aug. Cont'd. downpour as we set up the nets but this cleared unfortunately as the moon was full. Very little seen flying. Caught 1 Pt. parnellii just before sunset. then 1 Glossophaga soricina, 1 A. cinereus and 3 Carollia (released). Took the nets down at 10:30 PM much disappointed & home to bed.

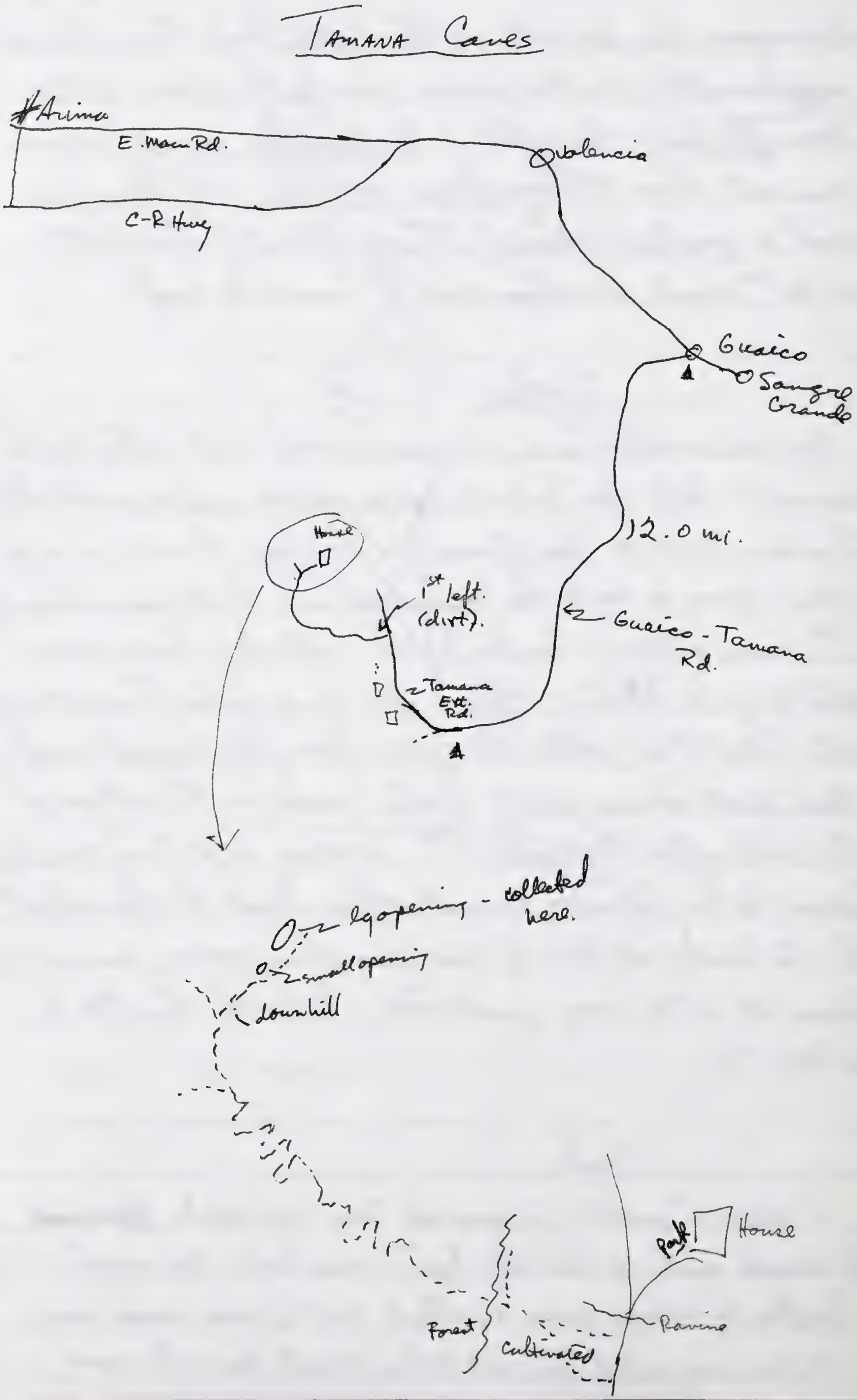
30 Aug. Simla

Up reasonably early & processed last nites catch. Around 11 left for Port-of-Spain to do administrative chores. First to San Juan for dry ice but - "no hay". Were going to try to do laundry here, but was already 1 PM so on to POS & Pan Am office - after ½ hr here were told to go to BWIA office for Venezuelan Tourist cards etc. Did this, while the girls bought boxed lunches, then sent Dave a cable & ate lunch on the steps of the cable office. By now 4 PM. Drove out long circular Drive to the Forestry Permit office but it closed at 4. So back into POS & grocery shopping, arriving home at 6:30 very frustrated. Relaxed this PM & to bed ~ 11.

31 Aug. Simla

Today is Trinidad's Independance Day. Up late-ish & relaxed until 4 when left for Tamana Cave. As usual Jacks directions were excellent, but I was never sure of the way until we got to the trail to the cave,

Tamana Caves



31 Aug, cont'd. which I recognized from before. About 5:30 began climbing the trail which seems longer than the mile or so it must be – this is the only really major trail here. To reach the openings we worked one simply bears right every time upon entering the woods. Reached cave ~6 PM & bats were already milling around. Used a hand net over the big opening & scooped bats like mad till ~8 PM. Got many Pt. parnellii, Pt. dayaoi, fewer Pt. personata, 8 Natalus & 1 Anoura. ~~Discarded all but~~ Also ~4 Mormoops which were the last to come. Discarded all but 10 of everything upon reaching the car ~ 8:30. Then drove home. A drink & read then to bed.

1 Sept. Simla

Up early & left for POS by 10. Got Ace in San Juan but the car wouldn't start. Finally got it going then on to get Permit. Couldn't get it today, must try tomorrow. Went to airport & got a new car, then checked up Ara freight & got name of shipping agent in POS to use. Must ship tomorrow, so no more collecting. Home ~ 3 and relaxed. To bed late.

2 Sept. Simla

Up early & packed pickled bats & collecting equipment to send Home. Off ~ 10:30 to Permit office. Got permit and, with a little patience,

Sept., cont'd. Some Export permits. Had lunch. Then went to look for shipping agent but could not find him. Tried Pan Am & they directed us to A.J. Maurtzen & Co., Ltd., 90 Queen St. POS. They were very helpful & for almost the same amount again as the freight charges, took everything in hand. This finished ~ 4 PM. Then home & collapsed. to bed a little early.

3 Sept. Simla

Up late. The girls left early for POS (again!) and shopping & the beach. I relaxed w/ nothing particular that needed doing. A lazy day and to bed latish.

4 Sept Simla, Trinidad to Caracas, Venezuela

Up early and puttered around until 2 PM when began packing & cleaning. Paid Jack for the rooms & at 4 PM left Simla. Got to airport, checked in and paid for the car. Took BWIA flt 376 to Caracas leaving a little late at 7:35 PM. In to Caracas at 8:45 PM with a light snack on the plane. We had the wrong tourist cards & were hustled off to get the proper ones. No problems at customs. Then had to walk (w/ luggage) ½ - ¾ mi. from the Int'l. arrival building to the Departure building. Much strain. Then pottered around the

D.O. Stoney Jr
1977

(Sept. Cont'd. airport trying not to get too bored.

5 Sept. Caracas, Venezuela to Guatemala City, Guatemala

At 5:30 PM checked in for plane after about 15 min sleep. Were taken by bus to the airplane and took off on Pan Am 516 15 min late at 7:30. Flew over N Venezuela to Maricibo – fairly flat here w/ NE-SW ridges cutting thru back from the coast. Then over water to S Panama and some fantastic snow-capped mountains. About at the Panama Canal breakfast was served. Arrived Guatemala City at 9:45 AM and got thru customs with no problems. Met John Cadle who had some advice for traveling & communicating in Latin America. Then repack his car. Stopped off in the market place to buy shirts and some blankets. Left GC ~ 11:30 headed for the Talisman boarder which we reached ~ 3:30. The Mexican authorities did not want to let the liquid nitrogen tank thru as they were afraid it contained bull semen. Took 2 hrs & a trip w/ them to Tapachula to get it cleared. Then drove into town for a Coke at the old Hamburgesa joint then on down the road to Arriaga. Stopped ~ 1 hr S of Tonalá at a bus-station — motel for the nite ~ 10 PM.

D.O. Straney

1977

6 Sept.

Somewhere, Chias. to Puebla, Puebl. Mexico

Up at 7:30 and on the road by 9:30. Stopped for breakfast in Tonalá. took 185 N at La Ventosa about noon. Stopped along here to pickle snakes. Then up 145 to Tuxtepec to 150 to Cordoba then the toll rd to Puebla. Stopped ~ 10 pm at the Zaragoza Motel for dinner & the same room we had last time, now with a thunderbird.

7 Sept to 13 Sept.

Puebla, Puebl. to Berkeley, Calif.

up early then into Mexico City to the annual health offices 15 Dr. Moro St. right on the Ave. Juarez Alameda. They & said we needed no more permits for the CN_2 tank. Then down 95D to Acapulco, arriving here for dinner. This road runs thru hilly country getting into cactic N of Zumpango. It gets slightly more mesic on the coast. Made it, thru thunderstorms that really blew Acapulco around, to Petatlan, Guer. for the night of the 7th in the only hotel we saw along this road.

Breakfast the 8th at truckstops near La Union then took 37 N from La Mira. Crossed the dam on Rio Balsas & a drug check. This road is slow until Cuatro Caminos where the Plateau begin to rise more slowly. Fairly mesic coastal hills. At Urupan began climbing again into pines and by the time we hit Carapan & Rte 15, we were on the Plateau proper - Pines w/ grassland

pt to 13 Sept.
Cont'd.

and broad valleys between peaks. Dinner in Zamora at café William (Strange place). Drove down to Jct w/ 80 & took this as far as Cocula, Jalisco where we got a room at the (only) hotel in town - $70/30 of us!

Breakfast the 9th in Autlan ~ 11 AM. Rt 80 is a much faster rd to the coast than is 37. Again an arid stretch between coast & Plateau. Hit Barra de Navidad ~ 2 PM & spent some time wandering the fine beach & bird watching — many frigate birds. Dinner of fish at a hotel here then drove up 200 to Puerto Vallarta snake-cruising (found only 1 Masticophus). Found a cheap motel N of town.

Breakfast the 10th at Las Varas and continued winding thru coastal hills until just N of Tepic where we hit the broad Pacific coastal plain and heavy agriculture. Dinner just S of Culiacan then road drove the rd to Badiraguato for snakes - little luck but there was a drug check halfway up the rd. Drove on to Guamuchil & an expensive motel for the nite.

Breakfast the 11th in town then up to Los Mochis where we went down to the port at Topolobampo to see about the ferry to La Paz. ~ $100 P/person, M (Cargo), W & F so we decided not to go to Baja. Drove up to Navajoa & dinner in a very Americanized

7 Sept. to 13 Sept
Cont'd.

restaurant. The coast is now in desertic thorn scrub. Drove the Alamos rd for snakes thru very fine hill habitat but the traffic was thick & only got 1 rd killed Crotalus atrox. That night in expensive cheap motel in Navajoa.

On the 12th on up 15 thru Guaymas & Hermosillo to Nogales (~8 hrs fm Navajoa) where the customs was very thurough. Dinner at McDonalds then to Tuscon, Phoenix & the nite at Buckeye.

13th drove on 10 into Calif thru LA, 395 to Kramers Jct, 58 to Buttonwillow & 5-580 to Bay Area. Belmont at 9:30 PM - Berkeley 10:30 PM.

Trinidad small mammals

Marsupials

1. size small — *Marmosa* (2 sp.)
1'. Size large
  2. feet webbed — *Chironectes minimus*
  2'. feet normal
    3. woolly, more than ⅓ tail haired — *Caluromys philander*
    3'. not woolly, less than ⅓ tail haired — *Didelphis*

Rodents

Squirrel — *Sciurus granatensis*

external cheek pouches — *Heteromys anomalus*

non cricetids

1. Hind foot tridactyl, cursorial — *Dasyprocta agouti*
1'. Hind foot normal
  2. spiny ? — *Echimys armatus*
  2'. not spiny ? — *Proechimys guyanensis*

Cricetids

1. Deep labial ridges m¹ m²
  2. weak teeth, ridges may be lost, small Microtus-like — *Akodon* (2sp)
  2'. teeth not weak, lger.
    3. Palate not reaching posterior arboreal part of toothrow — *Rhipidomys couesi*
    3'. Palate extending beyond tooth row
      4 Flat crowned teeth — *Nectomys squamipes*
      4' not flat crowned — *Oryzomys* (4 sp.)
1'. labial ridges not pronounced, cusps opposite — *Zygodontomys brevicauda*

*Micronycteris megalotis / or minuta } ✓
hirsuta
brachyotis
nicefori ✓
sylvestris

**Vampyrum
**Lonchorhina
*Trachops
*Phyllostomus discolor
hastatus ✓

*Mimon crenulatum
*Tonatia bidens / or minuta }

Glossophaga soricina ✓
longirostra
Anoura ✓
** Choeroniscus ✓

Carollia ✓
*Sturnira lilium ✓
tildae ✓
**Centurio
*Chiroderma villosum / or trinitatum } ✓
**Vampyrops ✓
*Vroderma ✓
Artibeus jamaicensis ✓
lituratus ✓
cinereus ✓
** Enchisthenes
** Vampyrodes ✓
* Ametrida
** Mesophylla

Desmodus
** Diemus

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* Pteronotus davyi ✓
parnellii ✓
personata ✓
* Mormoops ✓

** Noctilio

Berkeley to Los Angeles

7 Dec. Left UWZ at noon for 2^PM flight to LA to meet Sam Sweet. Plane late taking off and arrived at 3:15. Luggage late and succeeded in missing the 4:10 flight to Mexico City. An hour is far too short to switch here. A cabbie took us to the Sun Bay Motel in Culver City – a cheap place at $18(!?). Dined at Shakee's Pizza at $10 then got settled – to bed about 1:30.

8 Dec

Los Angeles to Mexico City

Up at 8^AM and packed, Cab picked us up & took us to the Airport for $7. We got on flight 901 at 12:35 direct to Mexico & had breakfast for $2.21/each. Flight uneventful, arrived around 5:30 local time. Got a VW fm Avise then went to reconfirm return reservations on the 22^nd. Somehow they had been cancelled! Got on another flight that has one stop in Guadalajara, all reconfirmed. Then cashed $300 in travelers checks for $6792 (~22.9 : $1). Drove then to Hotel Aguascalientes on Zaragoza Blvd. right where the Viaducto connects. Got a room w/ one bed for $200 — w/ 2 beds would have been an outrageous $400. Dinner at VIP's just up Zaragoza – Hamburgesa y papas fritas w/ 2 cokes for $46.80.

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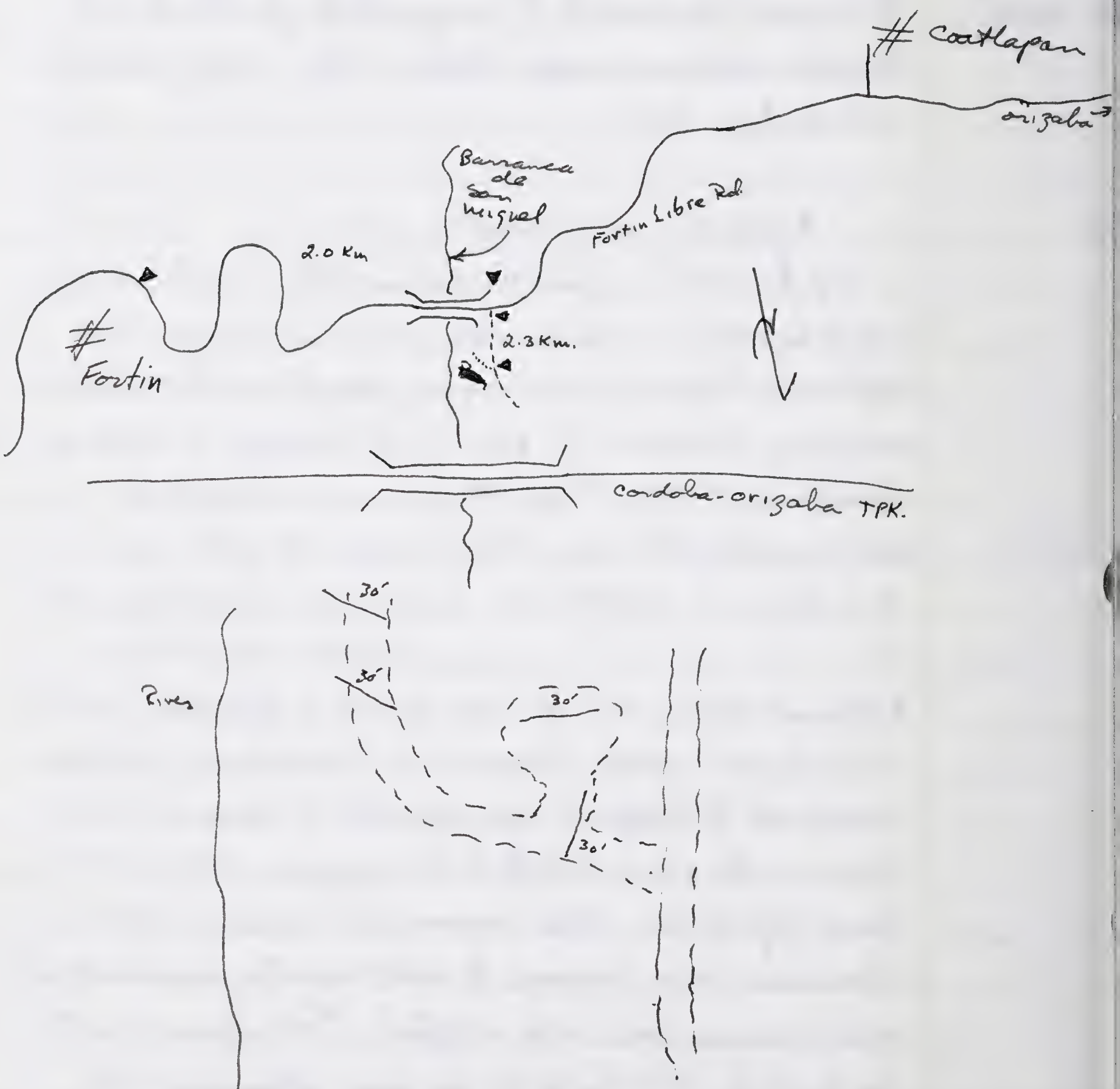
Dec. cont'd. Returned to motel & repacked for the field. Found an American music station on the motel intercom. to bed by 12:45.

7 Dec

Mexico City to Cordoba, Ver.

Up by 7:20 am to face the Mexico City rush hours by 7:30. The road to VIPS passes a major bus depot and between scurrying people and mindless merging busses, it was quite a way to wake up. Breakfast at VIPS - $3.60 + 1.80 tax - of an omlet w/ potatoes, onions & bacon. Then drove to get LN_2. The place is INFRA, 11C San Francisco Coatlalpan St. in , just N of the Distrito Federal off of 57. on Mex Rt. 130 & off of this. Got Lost twice - once because the connection between Viaducto & Pereferico was closed, a second time because Rt 130 is labelled on maps as 134. Got this done by 10:30. Was somewhat curious to do business in a language I don't really understand, and everyone was very helpful. Then drove out to Puebla. On the way, we were shunted off onto a sidestreet w/ everyone else as a motorcade of many gun toting men and three ominous buses went zooming past with helecopter escort. Reached Puebla by noon, Orizaba by 2 pm. This was the 1st time I have been over the pass to Orizaba in the day and the transition from high Plateau

Netsite, 9 Dec. 1977



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Dec. cont'd.

dry scrub to moist tropical forest is abrupt. Saw some flowering trees in this area.

Arrived in Cuatlapan at 2:30 and saw Carlos Cerron, delivering Dave Wake's christmas gift. We (tried to) talk for some few minutes, then he accompanied us to the Diplylla cave part way up Cerro Chucabuattla. According to him, the name is La cueva de las Tempisquisqle - named after a local tree. We approached this time from below the cave - a much easier way to find it. I discovered that I had only a 1½ volt "Hobby Battery" with me so was left with only a faint orange glow 2" from the bulb. We managed to net 6 Desmodus, one a suckling of a ♀. It looked as if much dirt had washed in as the ceiling was much lower than I remembered. Returned to town & had a coke. Paid Carlos $50 for his help then left ~ 3:45. Drove into Fortin for gas & got goodies to eat. Returned out the Fortin Ibre Rd. to the bridge over Barranca de San Miguel where we went R onto a dirt road leading into Cuhatemoc Park. 2.3 km up this a slight road leads off to the R, where we set 4, 30' nets (see facing). This done by 6:15 when it was all but dark. The area is second growth, 3 story wet forest w/ many trees in fruit at this time of year. It grades to open

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7 Dec cont'd. grass & shrubby areas by the river. The canyon of the river valley is steep. Hiked until ~ 9:35. Carollia common early with Sturnira, Artibeus began showing up about 1 hr. after sunset. Other species taken 8:30-9:30. In all, got: 1 Ananya, 6 Sturnira, 1 A. toltecus, 13 A. jamaicensis, 14 Carollia brevicauda, 1 Pt. parnellii.

Drove to Cordoba for the night but drove around some before finding a Motel on the Veracruz side of town (Motel Buenavista). A very nice room for $150. While getting a receipt the boy in the office, who spoke fair English, asked for the words to "If yo go to San Francisco". After three times thru, I got them for him. Drove back into town & had a nice dinner of Pollo de las Parmesania at a cafe on the zocalo (145). Then back to the motel. I bled 4 Desmodus for Coatlapan but could not get more than 2 drops of plasma from 0.5 ml of blood from each. Finally took muscle samples & pickled the bats. This was 2 bats. Showered & to bed, very tired, at 2:30.

10 Sept. Cordoba, Ver. to Matias Romero, Oax.

Up at the ungodly hour of 6:30, finally getting out of bed by 7. On the road by 7:30. Breakfast at the intersection w/ 145. Tierra Blanca by 9, Tuxtepec by 10. Down 147 to Matias Romero by 1. Got

10 Dec cont'd. gas at Palomares where the electricity was out and they pumped it by hand. The whole Papaloapan area is one vast early second growth area with many marks of fire. Am curious as to how it got this way, as it is too vast and unnatural not to be planned. There is a series of steep, forested hills, tho, just down 147 fm the Cerro Pelon rd that could be productive. Lunch at the Hotel Juan Luis ($45). Then drove S for a net site. First stop was Km 5 El Mesquite in the S slope of the hills. This is all deciduous forest and the lush of this summer. is now dusty and brown. There were several possible sets here along the dry stream bed, but things were so open and dry that it seemed foolhardy to try. Sam got 2 Sceloporus here. Drove back N to the only real piece of forest we saw S of Matias Romero at 8.5 Km S Matias Romero (on Hwy 185). Almost no trees looked to be ~~in~~ deciduous. The area is a steepsided stream valley just W of 185, reached by a small dirt road from the N. Set 6 nets (one 18', one 45', four 30'): 3 over standing pools of water, one in a dry portion of the streambed and two in a banana grove above the bed by ~50'. Nets up by 6:15. Activity declined rapidly after 8 when only Desmodus & a stray A. jamaicensis and

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Dec. contd. Glossophaga were taken. Few Carollia. Got: 1 Phyllostomus discolor, 3 Pt. pamellii, 2 Sturnira, 6 Carollia, 6 Glossophaga, 6 A. lituratus, 11 A. jamaicensis, & 21 Desmodus (56 bats).

Nets up by 9:45 then returned to the bus stop 0.2 mi N of the hotel for some cokes which passed for dinner. Then to the motel and 2 hrs of processing yesterdays bats, most of whom died during the day. Also took tissues from a Philander Sam beaned with a rock after he saw it trying to eat an A. jamaicensis caught in the net. Ventrally, the opossum has a medial dusty yellow wash on a white base, particularly noticable over throat & marsupium. The inside of the thighs is more brownish. Dorsal coloration was a deep charcol grey w/ some white tipping of scattered hairs. A handsome beast. To bed by 1:30.

11 Dec. Matias Romero, Oax. to Arriaga, Chis.

Up an unplanned late at 9:10. Breakfast at the hotel then on the road by 10:30. Drove to La Ventosa, then up past Tapanatepec on the Tuxtla Rd. Stopped 11 Km. NE Tapanatepec at a place Terry Johnson claimed was excellent. It looks it. It is the first bridge on this road, and a small dirt road passes under the bridge to a waterfall. Started

(on NE junct w/ Hwy 200 Rte. 190.

catch, 11 Dec.:

1 Pt. parnellii
5 Pt. davyi
1 Pt. personata
3 Desmodus (+ many discarded, 15-20)
11 carollia brevicauda
42 Glossophaga (more than 1 sp?)
18 A. jamaicensis
9 A. lituratus
15 Phyllostomus discolor
12 Sturnira
2 Saccopteryx

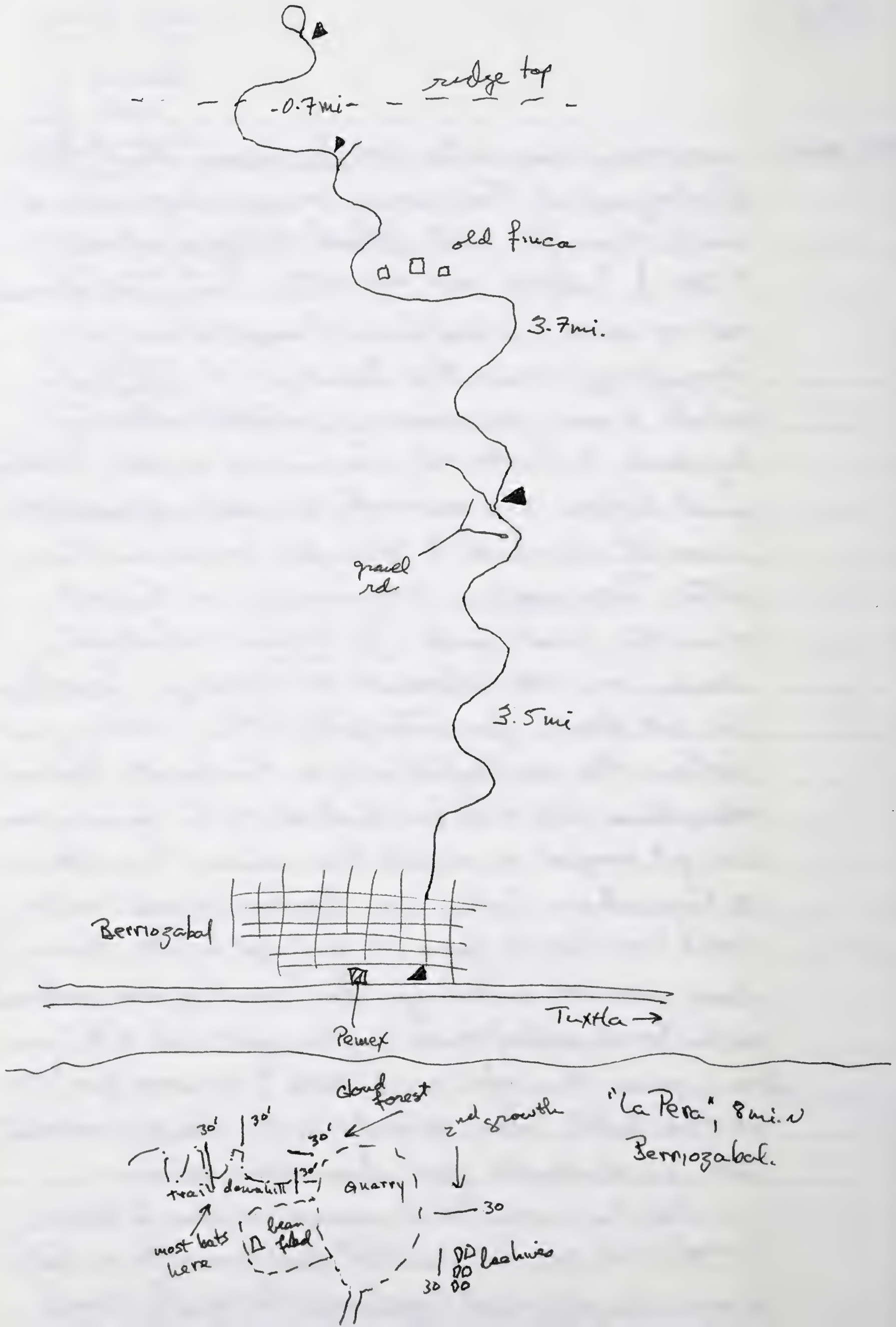
104 + discarded Desmodus

11 species

+2 Trachops cirrhosus

11 Dec cont'd. processing last nites catch - many dead bats. Photographed the living ones. Again had much trouble with blood. Stopped about 4:30 & helped set up nets - Sam had already put up some. He had been busy catching Saccopteryx under the bridge (7) & lizards while I was processing. Got 7 nets up by dark & I started processing again, finishing just before the activity started - ½ hr after sunset. Worked 4 straight hours on the nets. Desmodus primarily in the net over the waterfall. Pt. Davisi relatively early on net closest to bridge. Trachops in net down fm waterfall (the 2 sets just below the waterfall were the best. Started taking down nets ~10 finished at ~11:15, having many bats get tangled as we took them down. Then down to Tapanatepec. Picked up a Pseudoplesiomica? on the road here. Got to town ~11:40 & got a coke, then drove out 200 to Arriaga. ~~for~~ Found a nice restaurant on the Tonala side of town & got a good meal of M. Lanosa dores y puerco. Then into "town" there & a room for $100 at the Hotel Colon. to bed ~2:30. Slept somewhat later as the people next door were noisy.

On the road to Arriaga, we saw 2 foxes (tried to hit one, but could not find him after we did) 2 mice (one w/ a short Oxychoerus-like tail), 1 coati


ridge top
-0.7mi-
old finca
3.7mi.
gravel rd.
3.5mi
Berriozabal
Pemex
Tuxtla →
cloud forest
2nd growth
30'
30'
30'
30'
trail downhill
quarry
30
most bats here
lean tubal
laahuas
30
"La Pera", 8mi. N Berriozabal.

11 Dec, cont'd. and one dead Sp. Logale - not a bad Mammal road!

12 Dec. Arriaga, Chis. to Tuxtla Gutierrez, Chis.-
Up at 7:40, Sam awakened earlier by a screaming niño in the next room. Breakfast at the hotel. Then drove up to Tuxtla rising abruptly into the Altos. The forest above Arriaga is tropical deciduous forest. Once on the "Plateau" of the Altos, ran into a torch carrying relay with boys spread every 100 ft. and a bus picking them ~~#~~ & dropping them off up ahead. Arrived Tuxtla around noon. Got a bungalow at Hotel Bonampak for $15 and then a rather expensive lunch. Went back up to Berriozabal to drive up to Jerry Johnson's salamander site in cloud forest. The road is difficult to find leaving the town, but is the road to "La Pera", an old oil well site 8 mi beyond N of Berriozabal (see map). Got there ~2 and I processed while Sam started with the nets. I helped later & all nets up by 5. I continued to process until ½ hr past sunset. All bats caught in one net lowest down on main trail (one in another net). All bats caught by 7:30. Very dissapointed in the turn out. Nets up by 8:30 & returned to Tuxtla. Sam had eaten some beans from the field at "La Pera" and

12 Dec., Cont'd. was violently ill on the way back - this lasted 'till early morning. I wasn't feeling too hot myself & couldn't eat the dinner I ordered. To sleep ~ 11 PM.

Catch: 1 Hylonycteris underwoodi, 3 Anoura, 4 A. jamaicensis, 3 carolliae (2 banded ones released). 11 Bats.

13 Dec Tuxtla Gutierrez, Chis. to Rio Laja Vacinity, Chis.

Up at nine and breakfast at the hotel. Then drove up to Rio Laja on the Villa Hermosa road. The river is still high. Processed last nights catch & then decided that the area was not good enough for bats. Drove back to Tuxtla & stopped at a stream, 1.2 KM NE Junct. Hwys 195 & 190 (on 195). The riparian vegetation is not particularly wide, but has a large number of fig trees, many open white flowers & banana groves. Set 6 nets upstream from the bridge all across the stream. Nets up by 6 & dark later. Nets nearest the bridge immediately caught 10-15 Pt. parvelli. Anoura also common early on, usually caught in groups of 3-5 in the same part of the net. Lasiurus taken ~ 8 at the uppermost net, as was ~~Trachops~~ Chrotopterus Salvini about an hour later. The end nets did beat as well as an 18' net at a narrowing in the stream just behind a huge boulder - appeared that bats came over boulder then dropped towards a pool, hitting

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13 Dec., cont'd. the net. Nets down, 10:30-11 then had some dinner and camped by the river. Asleep by Midnight.

catch: 1 Lasiurus, 1 ~~Lasiurus~~ Chiroderma salvini, 4 A. literatus, 10 A. jamaicensis, 7 A. small, 12 Sturnira lilium, 4 S. ludovici, 28 Anoura, 6 Carollia, 1 Glossophaga, 1 Myotis, 1 Pt. davyi, 26 Pt. parnellii, 1 Desmodus.

14 Dec. Rio Laja Vacinity, Chis. to 7 mi N Tapanatepec, Oax.
Up about 7:30 and on the road by 10 after Sam hunted birds and we did some skeletons. Bought more food in Tuxtla then brunched at Restaurante "La Selva" – a fine place. On the road by 11:30 headed for Rizo de Oro. Passed Baker's 42 Km W Cintalapa locality but this is now in very bad shape (agriculture) that we won't collect here. Went out the road to Colonia Figueroa at Rizo de Oro for 2½ mi to a stream Ted Papenfuss had suggested but, while there was some water in it, it was far too open & dry away from the river to be worth anything. this road is terrible. Decided to net again 7 mi N Tapanatepec and arrived there at 3:30. We'll call this 7.3 Km NE junct 190-200 (on 190), Oaxaca. I processed bats until 6:30. Sam set nets (3) about ¼ mi upstream where a small tributary enters fm the R (walking upstream). Caught the Trachops (right above the water) & Centurio in this net. Nets down by 9:00 as activity light. Saw ~~so~~ many Pteronotus davyi (?)

Catch, 14 Dec.:

1	Centurio senex
1	Trachops cirrosus
8	Pt. Davyi
9	Glossophaga
5	Desmodus
4	Carollia
3	Phyllostomus discolor
1	Sturnira
1	A. lituratus
33	9 sp.

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14 Dec., cont'd. fly over the nets. Returned to the waterfall and pickled the remaining bats from last nite then to bed by the river at 11. Many ants made it difficult to find a good place.

15 Dec. 7mi. N Tapanatepec, Oax. to Tapachula, Chis.

Up before 6 unable to sleep. A bad nite with bugs. on the road by 7:45 to Arriaga where we bought formalin ($28/l) and had breakfast at the Hotel Colon. then drove down 200 to Tapachula. this area is even drier than before, which makes seeing streams easier. there are several promising ones - small in width (to 40' tree-to-tree), shallow, not many big rocks, many overhanging trees — they are as follows: ~82 Km mark, ~92 Km mark - both SE Tonala. Also one between the truly fine virgin forest at ~km 212 and Huixtla. Will try for some of these later this week. Arrived Tapachula ~2. Drove out the Nueva Alemagne rd to the bridge but this river is far too large to net. Came back in to town for lunch, then got a room at the Kamico Motel before going out the rd. to Union Juarez to look for a site. Ted Papenfuss had suggested this road. It climbs into the hills and all of the streams are very narrow (5') with many huge boulders and pools only a foot or ~~two~~ two in longest dimension.

15 Dec. cont'd. Finally found one that looked promising 2.8 Km N Trinidad. It is only a foot or 2 across and is in coffetal, but with many bananas. The upstream part above the road is very thick with promising vegetation. It is very rocky, tho, with no usable pools. Set 4 nets by 5:30 — 2 at the entrance of the culvert under the rd., one at an S in the stream where there were clearer areas to the inside of the curve, and one in relatively thick banana plants / trees further down. As we finished we ran into some people who informed us that this area was used as the bathing area for a village just up the road. Shortly before dark a couple came down to use the stream & I warned them of the net, which he called a "mist". Waited for them to finish, frustrated as we saw bats flying while they were splashing. Finally decided they were really washing clothes and, this requiring no public descency, we went down. The señor commented on how effective the "mist" was and, sure enough, the net closest to the culvert was packed with Carollia. Started removing these and discovered that our lights were attracting enough tiny insects to make breathing difficult. I resorted to stuffing part of my shirt in my mouth, biting the button, and straining the

15 Dec., cont'd. gnats out of the air. This problem went away shortly, as the activity dropped markedly. Caught Carollia in all nets. Took Sturnira in the nets away from the culvert and the 2 Artibeus in the net in the denseed area. In all got: 25 Carollia, 7 Sturnira, 1 Artibeus lituratus and 1 A. toltecus.

Took down nets at 8 as things were really slow & returned to the Motel. I processed bats while Sam had dinner, then relished the first hot shower in a week before going to bed by 11:30.

16 Dec. Tapachula, Chis. to KM 212-214, Hwy 200, Chis.

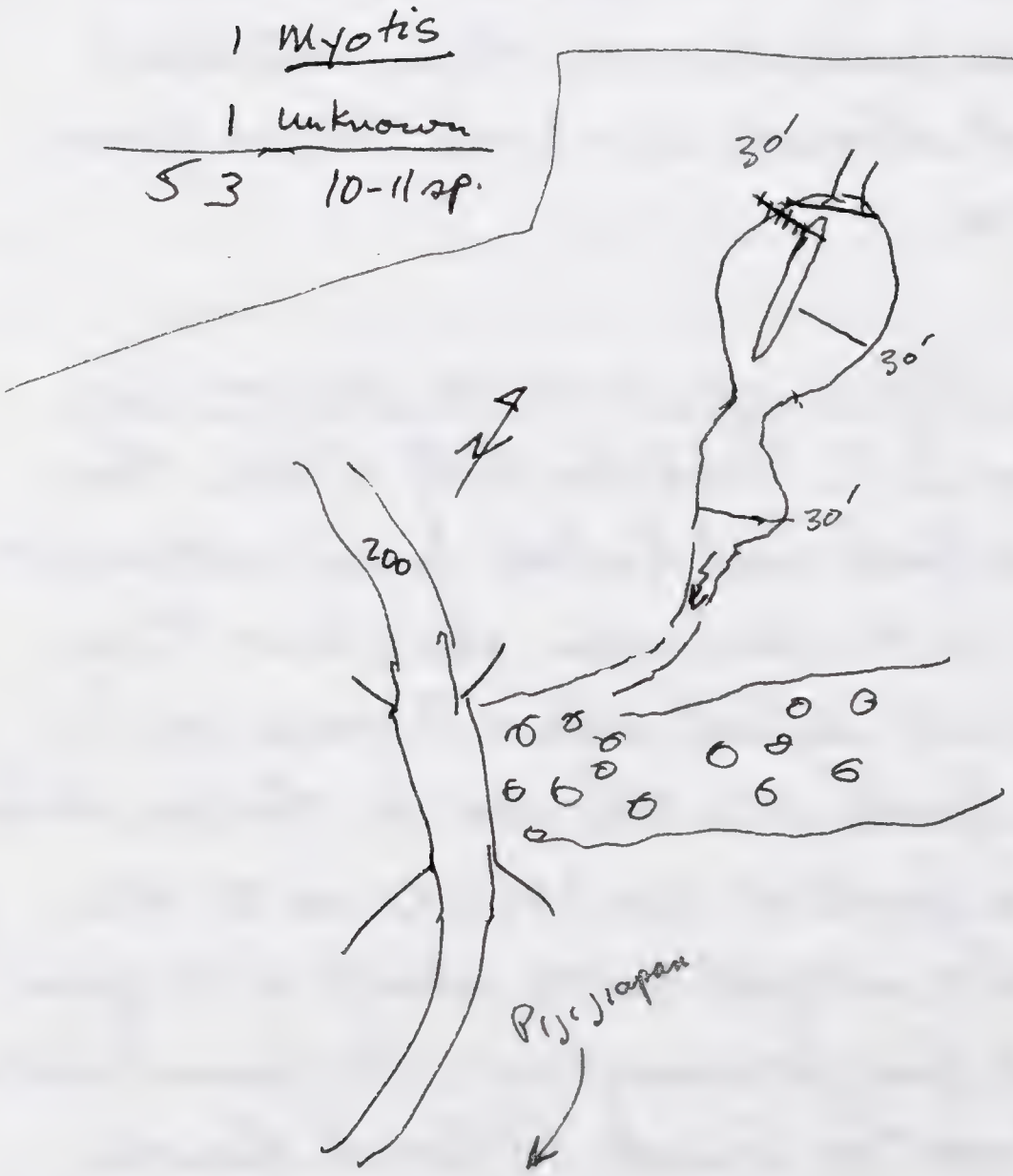
Up late by 9:15. Paid the bill ($437) then bought some food and looked for a restaurant. Finally went to the Hamburgesa place but they had nothing to eat so had cokes. Drove to Huixtla & had lunch at a cafe next to the gas station then out to the forest at KM 211.5-213 on Rt. 200. Also checked out a river at Km 214 which is no good for netting but fine for camping. The forest looks excellent and on the S. side of the rd there is a small, winding stream with many palm-like plants. Set 6 nets in here along the river, one on a flat above and S in the river. This done by 5:15. Returned to the car for dinner and then to the

Catch, 16 Dec.:

18 Carollia
8 Sturnira
6 Artibeus lituratus
4 A. jamaicensis
2 A. toltecus
7 Uroderma bilobatum
1 Chiroderma
3 Eptesicus
3 Vampyressa A. phaeotis
1 Myotis
1 unknown

5 3 10-11 sp.

17 Dec.



16 Dec, cont'd. nets. Carollia & Sturnira early. Uroderma and _____ scattered after the 1st 45 min. I got bit by a nasty Uroderma, Sam by a Sturnira. Nets down by 9:30 after activity tapered off. Camped at the river at Km 214, with a late snack. To bed by 11.

17 Dec, Cont'd. Km 212-214, Hwy 200, Chis. to Tonalá, Chis.

Up by 7 and washed some clothes while Sam mended his boots. Drove NW to Mapastepec, arriving ~10 for brunch at a restaurant on 200. Then bought food in town and searched for Jerry Johnson's road to a Noctilio site. Went out one which crossed a small river. Stopped there and processed bats 'till about 2:30 then drove out to the end of the rd (~10 km). Here some people showed us to the Rio San Nicholas, much too wide & open to net. Spent a few minutes talking and agreed to take one of them in to Mapastepec. On the way (3.4 km SE Mapastepec) he showed us a hollow tree w/ Saccopteryx. Got 9. Into town ~4:45 then drove up 200 looking for a place to net. Finally found one w/ ½ hr of light left, along a tributary of the large river in Tuxtla (see map). Set 3 nets before it was too dark. Before we

Catch: 17 Dec.:

1 Noctilio leporinus

5 Artibeus lituratus

10 Artibeus jamaicensis

14 carollia

3 Sturnira

3 Pt. davyi

2 Pt. personata

1 Eptesicus

1 Saccopteryx

11 Glossophaga

51 10 sp.

D.O. Straney
1977

17 Dec. cont'd. finished, caught 1 Saccopteryx & 1 Eptesicus. Caught 1 Noctilio in the downstream net. I watched him hit the net twice, bouncing off & then straffing the water. On the third time, I was there quickly enough to throw some bag over him. Activity decreased by 8, nets down by 8:45. The moon is beginning to be a problem. Went to the Motel S of town but it was full, then tried a restaurant, but it only had snakes (snacks). Finally found a café at the Pemex w/ real food. Left ~ 10:15 headed for Tonalá. Picked up an anteater 10.2 km NW Pijijiapan DOR in scruffy looking thorn-scrub/agriculture. Also saw 2 DOR foxes + 1 DOR Spilogale. Arrived Tonalá at 12 & got a room at the Motel "Thomas" for $160 - with 3 beds. Pickled some animals and discovered the anteater to be pregnant, so fixed the fetus. Madam anteater was badly hit but still fresh, so took tissues - no skull possible but will photograph the color pattern. To bed by 1.

18 Dec. Tonalá, Chis. to Puerto Arista, Chis.

Up at 8:45 and had breakfast on the N side of town - not a good restaurant. Bought some food (couldn't find much) then drove SE to a small, bouldery river 23.2 km SE Tonalá. Spent until 4 processing bats. It was necessary to start

Catch, 18 Dec.:

8 Lonchorhina aurita

6 Eptesicus

5 Carollia

3 Sturnira

2 A. lituratus

9 Glossophaga

9 Pt. parnellii

42 7 sp.

Catch, 19 Dec.:

21 Artibeus lituratus

15 A. jamaicensis

28 Pt. parnellii

2 Carollia

2 Sturnira

5 Glossophaga

1 Uroderma bilobatum

11 Noctilio leporinus

2 Saccopteryx

2 Eptesicus

---

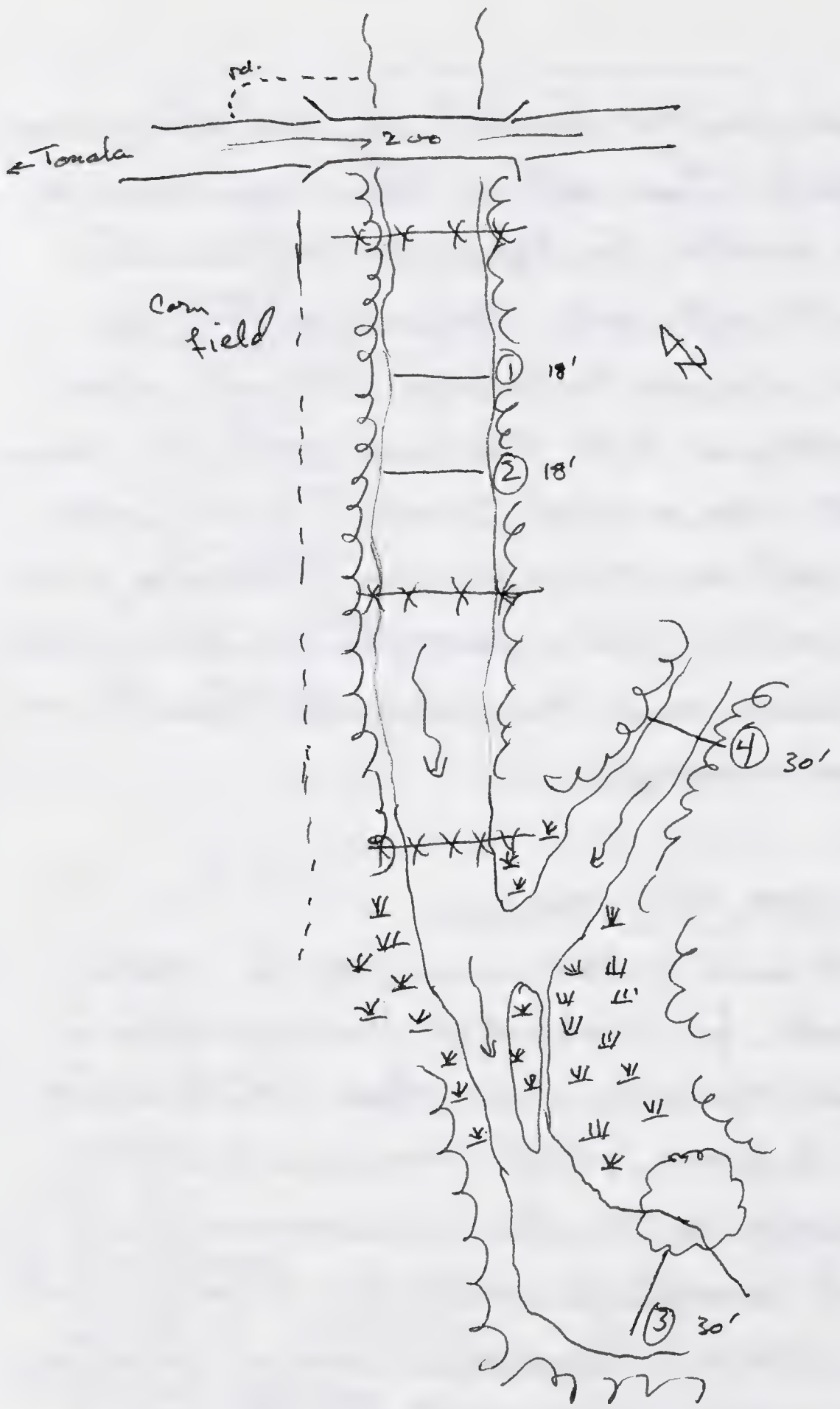
83 10 Sp.

8 Dec., cont'd. bagging bats as the bucket we had along was completely full. Then set 6 nets downstream in pools, where possible. Saw pigs rooting around. Nets up slightly after dark. Caught Lonchorhina in 2 nets, one just under the bridge. Activity died almost completely at 7:45-7:30 and took nets down at 8:30. Left ~ 9:30 and hit Tonalá to find a fiesta in progress and no room in any inn. Likewise with Arriaga. Couldn't find a campsite so drove out to Puerto Arista and camped on the beach. to bed around midnight.

19 Dec. Puerto Arista, Chis. Vacinity

Up ~ 7:30 and pickled some lizards before going to Tonala for breakfast at the Rest. Marcos on the S side of town - a nice place. Then bought more food & went SE of town to a bridge 13.2 Km SE Tonala on 200. Here I processed while Sam collected Saccopteryx under the bridge and many large, colorful Ctenosaurs along the stream. This stream is not really suitable for bats, so we drove back to a bridge 8.4 Km SE Tonalá on Hwy 200 and set nets downstream. Got up a total of 4 before dark and immediately caught Noctilio. Several hit Net 3 at once. Decided to split up so Sam ran nets 3 & 4 & I did 1 & 2. These were on a shallower, narrower stream than the others, with more fig trees

Net Site, 19 Dec.



19 Dec. cont'd. and caught many more Artibeus, Ptenonotus, and the 2 Saccopteryx (had seen these & 1 Desmodus roosting under the bridge). The activity was fierce, & barely keeping up with bats hitting the nets. Finally got both cleared ~ 8 PM & returned to get another bat bag and found Sam had been having similar fun. He also pointed out that the red eyeshine in the grass was from a crocodilian - he had grabbed a 4' one and could not hold it. The activity began to slacken, and so did our perseverance, so took down nets. Finished this at 9:40, then drove to Puerto Arista for bed as all the inns were filled this morning when we tried. A light snack and bed by 11.

20 Dec. Puerto Arista, Chis to Huajuapan de Leon, Oax

Up at 7 with the beach beginning to fill w/ people. Pickled the few dead bats and drove to Tonala for cokes and on to Oaxaca. took about 4 hrs from Tehuantepec to Oaxaca, almost 3 fm Tonala to Oaxaca. About 3 hrs from Oaxaca to , where we netted. Set 2 nets in the river thru town, 2 nets downstream from the bridge. Saw one bat & caught him - a Tadarida. Then drove to Huajuapan, another ~ hour or so. Got a room at the Hotel Loma Vista

20 Dec., cont'd. and went outside of town and CO-ed the bats. Returned to the hotel & had a hot shower and a tasty meal. The people here appear to be Basques than pickled bats. Had a slight bout of diarreah & spent the nite with terrible indigestion, probably from the grease the Milenasa was cooked in. To bed ~ 12:30.

21 Dec. Huajuapan de Leon, Oax, to Mexico, D.F.

Up at 8:15 and packed the car, bought some cokes and on the rd. to Mexico. The habitat here is terrible - deserted hills in very dry veg - no streams w/ water of note. Lunch in Izucar de Matamoros at the very nice Hotel Colon on the N side of town. Stopped near Puebla to catch fish for the Noctillio we are keeping alive. Reached the airport in Mexico at 5 and reconfirmed our reservations. Then a room at the Hotel Aguacaliente and dinner at Vips. Spent ~ 4 hrs. packing - everything actually fits - and feeding Noctillio. To bed by 12:00.

22 Dec. Mexico, D.F. to Berkeley

Up at 6:30 and packed the car in the cold. To the airport by 8:15 and turned in the VW - $200 / 2 wks incl. insurance. Waited a while

2 Dec.

in the cold, unheated airport then checked in with no problem — $33+ in excess baggage, which was better than I expected. The flight was delayed by ~40 min. Had to exit at Puerto Vallarta for "Migration" then on to LA with a good lunch. Arrived LA ~2:15 and had to wait until 3:30 for the F&W man to come and see the specimens. A very friendly man who sped them things. I had missed my SF connection at 3 on United but got on the 4 PM (delayed to 4:35) commuter flight. Arrived SF 6:00. Then to the Museum.

D.O. Stanley
1978

Costa Rica, August, 1978

Berkeley to San Jose, C.R.

1 Aug. Left Berkeley today at ~~5~~ 5:45 AM to catch Pan Am flight 515 to San Jose with Ray Lee. Had no sleep the night before, so the flight was a true grind. Arrived San Jose, after connection in Guatemala City, at ~5:30 PM. Thru customs where they looked in everything quickly then a taxi ride ($50) to the Tala Inn. Noted that it was dark by 6:30, but with heavy cloud cover. Got a room at the Tala ($10) and met some of the biologists staying there. Went to bed early (after a bite at the Hardee's a few blocks away) for some much needed sleep.

San Jose

2 Aug Up at 7:30 and out to get permits, etc. Discovered it was a holiday (of the Virgen of Los Angeles) and everything was closed tight. Checked the town out tho, then back to Tala where we found the OTS class was dispossessing us of our room. Allen Hyser reserved a car and we moved over to the Pension Costa Rican Inn and got a worse room for more money (~$11/nite). Lounged in the PM reading - Ray went to the "Mas-X-Menos" supermarket and was caught in an afternoon rain. Went out

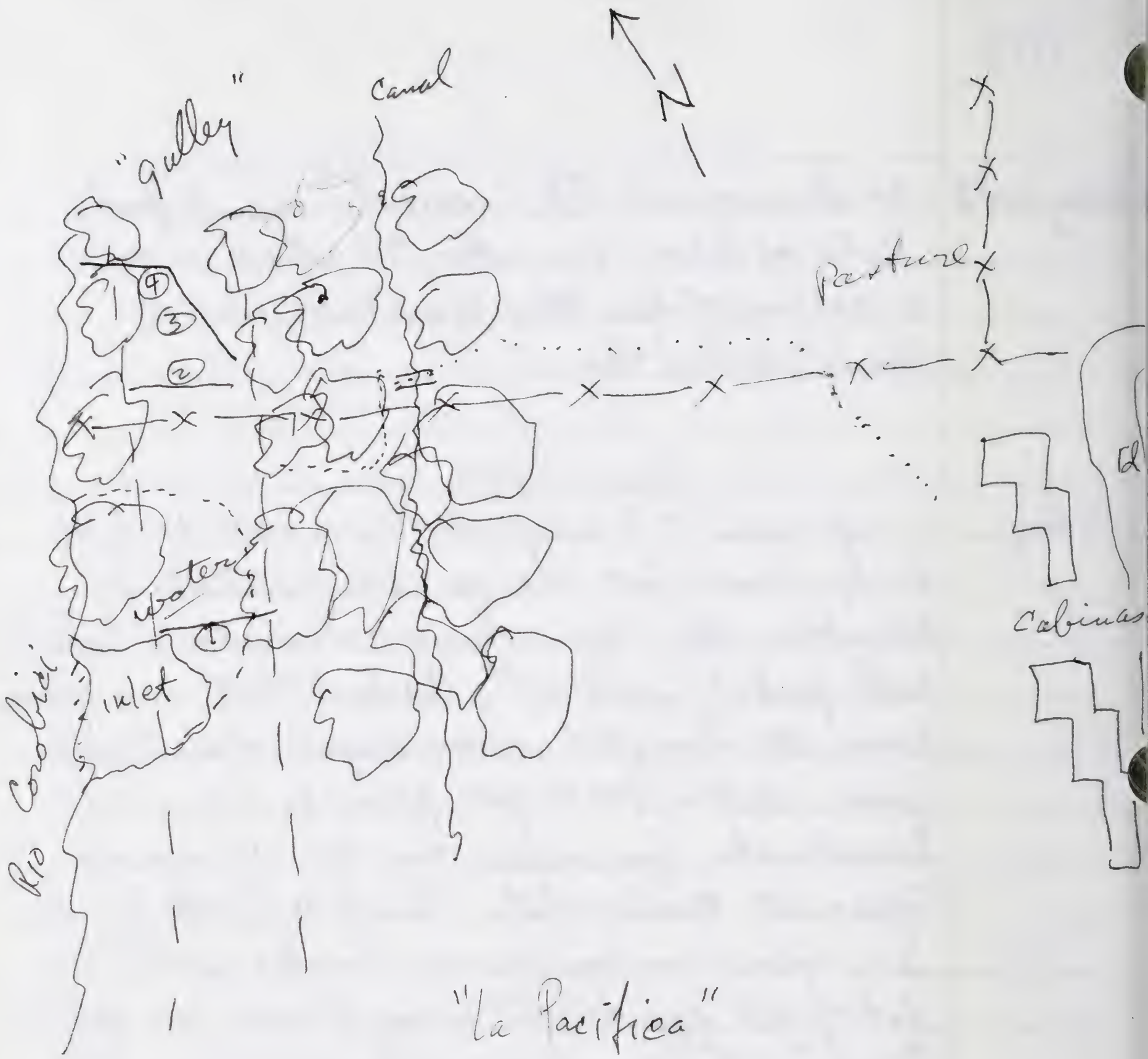
2 Aug cont'd. to dinner at "El Escorial" - good food, lots of beer & a color TV where we saw a replay of the Miss Universe show. Home & to bed by 12.

San Jose

3 Aug. Up early & breakfast, then out to get things done. Got the permit settled at Ministerio de Agricultura - Avenida 1, Calle 1. Will pick it up at 4 PM. Checked that our visas were OK, bought some maps, then back home. Out in PM to get permit, LN_2, and formalin at a farmacia near the mercado. Dinner at MacDonalds. Back to Costa Rican Inn where we had some drinks with the lot of US expatriots living there - an odd bunch. The usual assortment: one fat asshole, a worldly sort with equal wife, and a drippy woman. A strange ambiance here quite different from the Tala. To bed by 11.

4 Aug. San Jose to Cañas, Guanacaste Prov.

Up for breakfast at 7, then got car at the Tala, packed up and out of city (at last!) by 10. Took Hwy 3 to past San Ramon where it becomes Hwy 1.



"la Pacifica"

4 Aug.

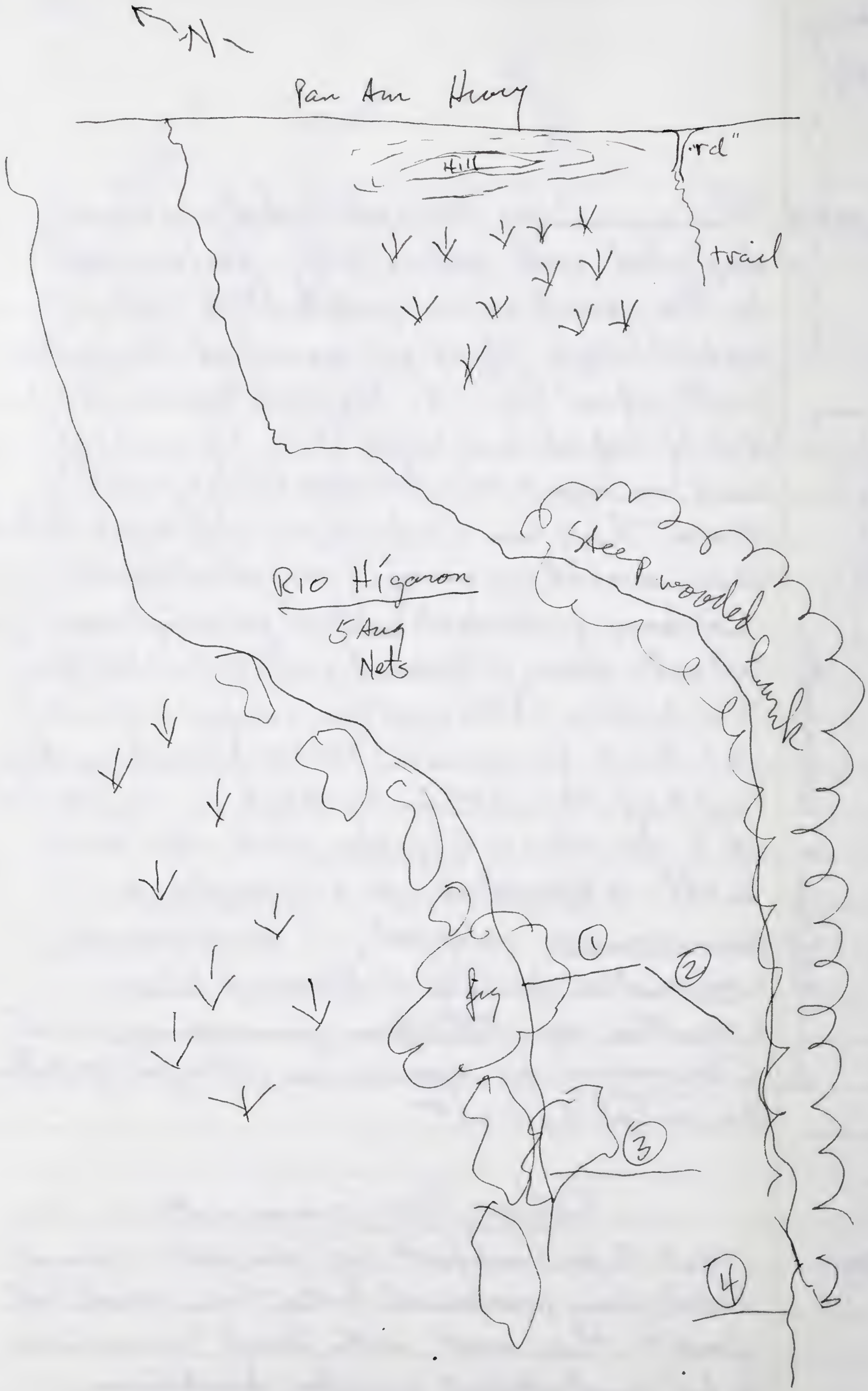
Nets.

4 Aug, cont'd. The area here - Meseta Central - is heavily disturbed with rolling hills. Descended to the coast on an excellent rd then up to Cañas where we reached Hacienda "La Pacifica" by 1:15. Bonnie Bowen & Rohlf Kofod are spending 2 years here and we spent the PM catching up with them. They are working on grooved-billed ani social systems & are also radio-tracking prehensile-tailed porcupines. Set nets along a cleared gulley beside the Rio Corobici. Returned for dinner & back out by 7 for up-nets. Got one Rhynchonycteris right off, then others trickled in. Last bat at 9 was also a Rhynchus, then nets down. In all: 2 Rhynchos, an 2 Glossophaga commissarisi released, 16 commissarisi, 1 Pteronotus davyii, 2 Sturnira lilium, 4 Carollia sp., 5 Artibeus jamaicensis, and 6 Desmodus as specimens. Stayed up talking then to bed by 1:30 am.

Saw 1 Didelphis & 3 Choloepus

Cañas, Prov. Guanacaste

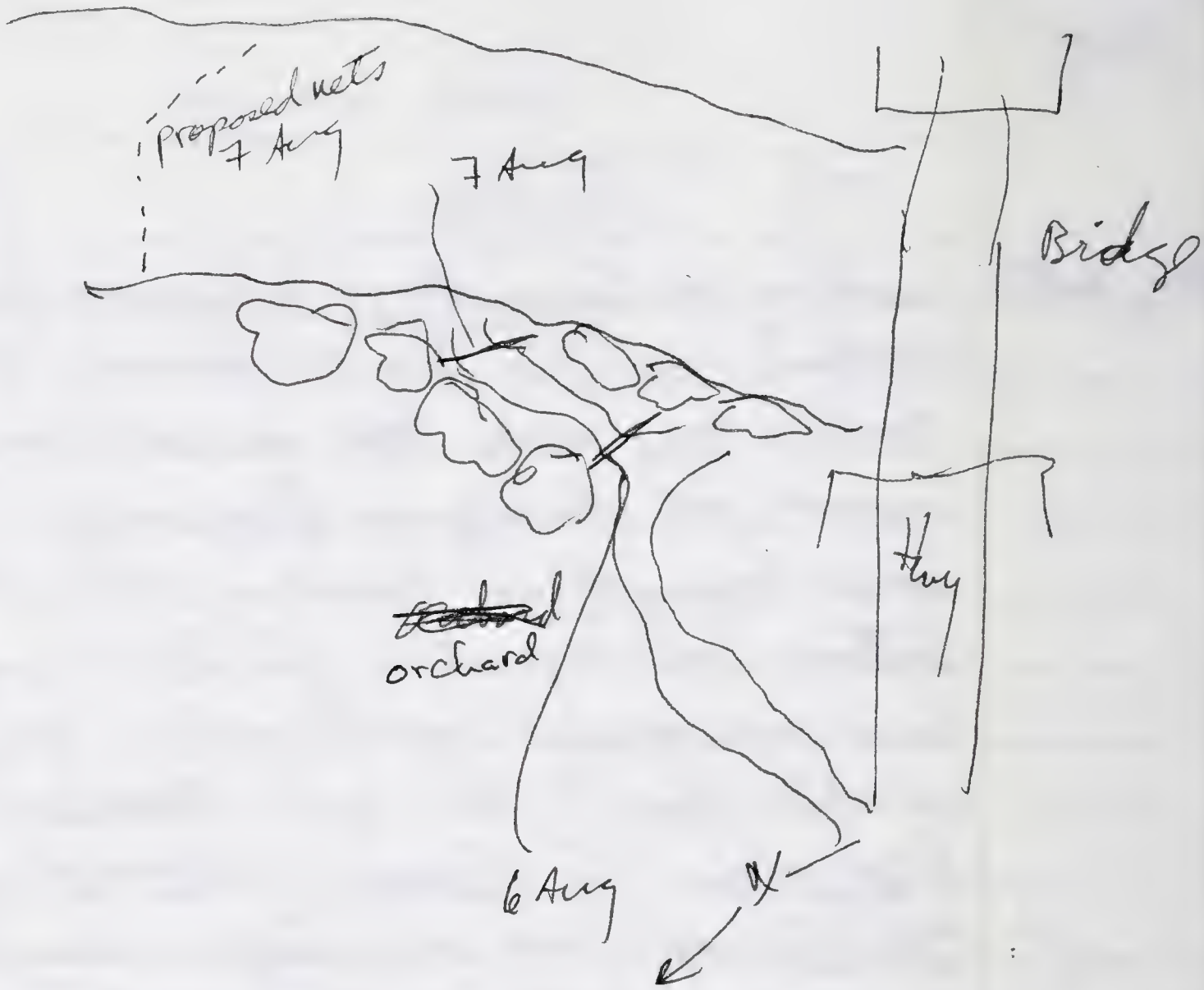
5 Aug. Up at 7 for breakfast (of "gallo-pinto" - rice and beans) then processed bats then lunch 'til about 4. Then went, with Carol Summers (a bat grad student here from Jacksonville


N
Pan Am Hwy
Hill
rd"
trail
Steep wooded bank
Rio Higuron
5 Aug
Nets
1
2
3
4

5 Aug. cont'd. working on Saccopteryx bilineata communication), to the Rio Higaron, 10 km S of Cañas by road. Here we set over the river at obvious flyways. Saw some Saccopteryx roosting and a tiger backed bittern. Nets up at 6:45. Saw 1 opossum (mid size, gracile, not Philander - long, slender tail) in a tree. By 9:30, got 1 Noctilio leporinus 1 Eptesicus, 1 S. lilium, 2 Glossophaga, 6 Carollia sp. (one very ruffous above grading to gray ventrally), and 10 A. jamaicensis. Back for dinner and bed by 12.

6 Aug. Cañas, Guanacaste Prov.

Up by 8 & processing by 10, we worked there to 3:30. Then down to the Rio Abangaren, Km S Cañas by road. Rained like a son-of-a-bitch when we got there & we spent the time looking at a Saccopteryx (?) roost in the joint of the bridge. Got up one net by dark (after actually) and got freckles 'till 9 when we returned. Had dinner before leaving at "La Pacifica" restaurant - grilled steaks & bed by 11:30. Got 1 C. omnivaga, 5 Sturnira lilium, 3 15 A. jamaicensis and 1 Phyllostomus discolor.

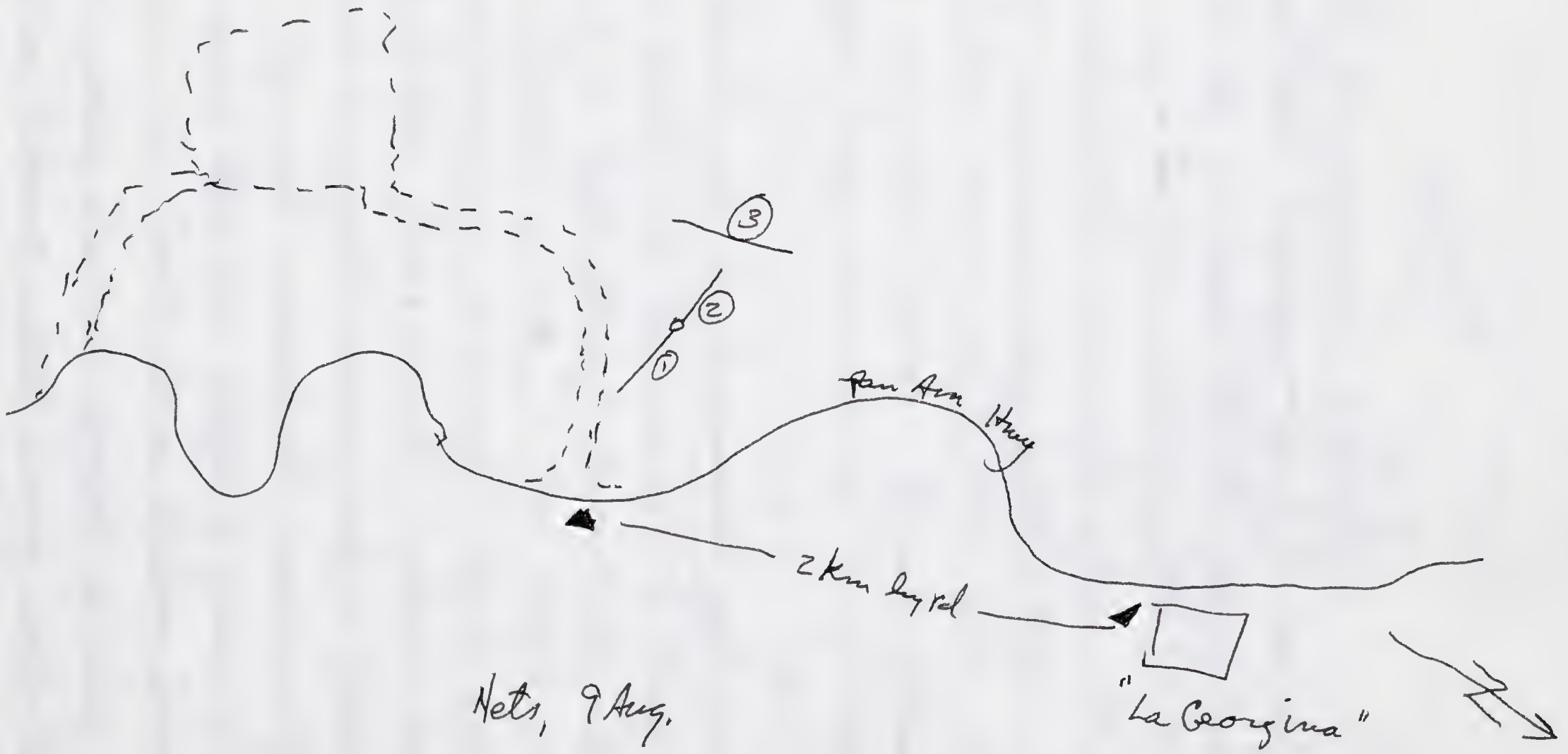

Proposed nets
7 Acres
7 Acres
Bridge
Hwy
~~Orchard~~
orchard
6 Acres

Cañas, Guanacaste Prov.

7 Aug. Up at 8 & processed 'till noon. Piddled away the PM, leaving for last nites sit & 4. Set up three nets, ~~3~~ over river then the sky opened. Took down river nets. Got 1 Artib. jamaicensis and 1 S. lilium by 7:15 and, as was still raining, called it quits. Home & dinner by 8:30. & bed by 11:30 after one wet night.

8 Aug. Cañas, Prov. Guanacaste to San José

Up at 7 & processed the 2 bats from last nite for the permit. Finally left "La Pacifica" (3 miles & 250+) at 1 PM, Bonnie & Rolf not back from the field. Drove on up back onto the Meseta Central. There is really little habitat along the coast, a few rivers (large), at least one nettable one near Puntarenas turn off. The Meseta itself is mostly in coffee with little banana. Nothing obviously nettable on the road. We went thru San José to Cartago to find a place, rising to get there over a cedar crested ridge. Got there in dark (~6:15) and rain to find no hotel - only the unmarked "Pensión Panamá" which a lady at the gas station by the ruins of the citadel told us of. Some helpful folks directed us to there but it was full, lousy & probably a whore house. Disgusted, drove back



Nets, 9 Aug.

8 Aug., cont'd. → San José. Dinner at a "Pollo Frito Kentucky" and stumbled into the Hotel Bella Vista (Ave. , Calle) run by an English-speaking blackman. Nice place (¢40 + ¢10/car park) but somewhat noisy. Talked ξ to bed by 12.

9 Aug. San José → Villa Mills, Prov. San José

Up (unavoidably) early. Drove out the Pan Am to Villa Mills on Cerro de la Muerta (time ~2hrs.). The road past Cartago quickly climbs into the Talamancas thru areas quite scenic but grazed. Past Empalme one starts to pick up little bits of habitat (the one Jim Hanken mentioned at Empalme seems no longer there). For ~30km before Villa Mills there is nice montane habitat that is probably second growth - short, ericaceous vegetation with scattered trees, some chuncks of woods. Fairly flat up here on top. At Villa Mills (= Restaurante "La Georgina") the road begins its descent ξ this part has much more good habitat than to the N, but tends to steepness. We ate at the Rest. and arranged for a room (¢30). Then went 2 km down the road (S) to where a gravel road goes off to W (this later rejoins Pan Am further down the rd. About 0.2 km up this,

9 Aug (cont'd.) the rd bends left on the mt. side, nice overlook. Just here, to the right of the rd. we set 3 nets by dark in some scrubby stuff that gave way quickly to what I take for real forest - fairly lg knarled, mossy trees with much bamboo. A very likely looking place. Had dinner before coming out. Nets up at dark (~6:15) then the mist came in strong & the light intermittant drizzle of the day continued. By 8:45 had got 36 Sturnira (c.f. ludovici) — 4 in the same spot on net 2, 2 on net 3. Dissapointed & cold we returned to our room & read ourselves to sleep. The area just behind the hotel looks as it might be promising.

10 Aug. Villa Mills, Prov. San José to San Isidro, Prov. San José

Up very early as the hoteleros were fixing the roof noisely — it rained buckets at night. Heavenly morning, lunch, then down the road to San Isidro (time ~ 1½ hr.). We will come back to the mts. & maybe try to net at the hotel - the owner said we could. The rd to San Isidro has many nice looking possibilities but many are steep. Ray changed money & we scouted the town, nothing many sleazy hotels. Drove S and saw nice Hotel del Sur 5 Kms S of town.

10 Aug (cont'd.) A restaurant (Jorón) just S of this. Drove thru this "Valle de la General" S – very cut over & in grazing (alt ~ 700 m.). Finally found a nice stretch of habitat 17+ Km S San Isidro. where a dirt road takes of to L. went up this to the Finca "Tienda Santo" & got permission to collect. very friendly. the administrator told us to look in the "canal del rio" & so we looked under the Pan Am & the culvert had many bat. It rained so we processed Sturnira. Let up ~ 4 PM & we stretched an 18' net over one end of the culvert & Ray screamed & threw rocks from the other. Got 38 Carollia (2 sp?) & 4 Glossophaga. Tired, went back to Hotel La Sur & got a nice room ($17!) & meal at Jorón. Processed bats till 11:30 & read to sleep.

11 Aug. San Isidro, Prov. San José

Up late, lunch then back to river. Made 2 more tries for bats in culvert & got 47 + 19 Carollia discarded many – the net was better set this time. Then set 3 nets in nice second growth (tall) along stream across Pan Am from the dust rd. On other side of stream, up steep bank, was what looked to be real forest. Nets set 11 & 1 to stream. Dashed back to Joron

11 Aug (Cont'd) to get room, but the Sun was full - a tour group. Grabbed some Equivt (which has replaced Coke as our drink) then back & up wet at dark. Caught 17 bats by 8, all looking to be Carollia from tunnel. Unfortunately the nite was clear w/ early ½ moon - too light, little activity and no diversity. Tucked it in & back to San Isidro. Found a nice hotel in town ($50+) - the only one w/ parking! - the "Chirripo". It is on the square beside the cathedral - don't know how we missed this the 1st time. To bed by 1.

12 Aug. San Isidro, Prov. San José to Villa Neilly, Prov. Puntarenas

Finally got moving by noon. Lunch in restaurant in hotel then out to our site & processed bats. Finally got them done (some odd "carollia" in there). Then down S to Villa Neilly, getting there at dark (time ~ 3-4 hrs). The road winds thru more of this nasty grazing land, but where there is. Hits the Barranca of the Térraba River, just before Palomares there is some nice habitat - gallery forest, etc. The river is large. After Palomares, the road follows the rolling coastal plain & looks much like Pacific

12 Aug (cont'd.) Chiapas. One can see good forest away from the rd & probably could work it w/ permission. May be hell to get to. Most of the area along the rd is heavily cut & settled. The streams are wide, sandy & with almost no riparian trees. Only one or 2 wettable streams to the N part of rd. Hit Villa Neilly at dark – the rd has many lg potholes & we bent the hub of one tire on one. This is a nasty little town, crowded on a Saturday nite. Only 1 good hotel (Musuco , 2 singles, $20/per) w/ street parking. We lugged ~~our~~ our stuff up & got dinner at a Chinese restaurant across the Pan Am. Sweaty as hell, we returned to the hotel, showered & to bed by 11.

13 Aug. Villa Neily, Prov. Puntarenas to San Isidro del General, Prov. San José

Up early due to noise but slept fitfully 'till 8:30. Then packed up and drove out the road to San Vito some 40 km N of Villa Neily (also known as Ciudad Neily). Just N of town there is a maze of gravel rds – apparently the area is booming. The San Vito rd is basically a continuation of the rd the Hotel Musuco is on. After crossing the river at the edge of town, this rocky, bumpy road climbs

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13 Aug. (cont'd.) very steeply into the mountains. There is little workable habitat along the road - most has been cut over to adjacent ridges which have fine (inaccessable) gallery forest. After ~ 7 km the road comes out on a ridge & for a while is flat & cut then climbs again. Many heliconia plants. We stopped 10.8 km S Agua Buena (= 10.8 km N Villa Neilly) for pictures & I walked over to a furled banana leaf to look in. It required Ray's boosting me to reach the base & when I peaked inside there was a bat. Hurriedly cutting the leaf, we layed it on the road and slowly unfurled it. There were 3 Thyroptera tricolor in the leaf, along with several fresh droppings. It was quite a sight to see two tiny feet with suckers poking out of the edge of the leaf! The animals are Myotis sized, white below shading to grayish brown marginally, on the sides, and dorsally. The ears are funnell shaped (like Furipterid?) and lips are light and look to be swollen (glands?) Legs are very thin, feet almost non existent. The wing membrane comes down broadly lateral to the legs. Suckers were fleshy, perhaps even moist (but this may be juice from the cut leaf). A very delicate Vespertilionid-like

13 Aug, (cont'd) least. One, that I think is a male, has more lesions ventrally and this (unlike the other two) meets in the urogenital region. This bat (DOS-1013) appears smaller than the two ♀♀. They vocalized a lot in the bag, a very metalic chirping, like an insect. Myotis - sound quite tinny. One got loose in the car latter and had a soft, silent, butterfly type flight.

After many pictures of these fine animals we continued uphill until the road levelled again in a much cut-over area with the town of Aqua Buena (21.6 Km N. Villa Neily). It had taken us 3 hrs to get here, counting out some time for bathing. We were both quite exhausted from the miserable road (a car w/ good clearance and sturdy suspension would have had a better go - we had a leaf rem & flat & had to change this). Decided not to go on up to San Vito, as we had seen no evidence of rentable habitat. This region is being rapidly settled and developed, and little remains now of what must have been exquisite habitat (note - the area is moist - mossy, broadleaf - and some rocky areas of pasture & roadcuts would be worth examining for bats). Took us 1 3/4 hrs. to return to Villa Neily, stopping to look

BAcy. (cont'd.) in more banana leaves, but with no success (Sweets "First Rock" rule applies to batting in bananas). Got lunch (~3) at the restaurant of the night before ("Te Bone Especiale" is excellent at ¢35). As we were eating the sky opend and the rain was quite persistently heavy. Decided to scrap this end of things and drove back to San Isidro. Had more rain at Palomares. to San Isidro after dark for a room & dinner at the Hotel Chirripo.

I have seen very little worthwile habitat in this portion of Costa Rica south of San Isidro. There are no bat streams as the riparian forest has been cut &, where not, they are just trickles in steep ravines. It is clear that the area has been recently developed (one can see good forest but can't get to it) and the boom seems to be on the upswing. I doubt that many localities in this area over five years old would be worth reinvestigating, unless the beasts sought were abundant in disturbed areas. The road would also be little fun to road drive. The one patch of good habitat we found at Finca "Tienda Santo" was not good for bat diversity, but we were unable to work it extensively & this might bear some

13 Aug. (cont'd.) more work. Were it not for todays Hymenoptera I would count the days we've spent here totally frustrating. I suspect that other collectors would have similar results — a few good things that barely make the effort to come S of Cerro de la Muerto profitable. And in only a little while, this whole region will be as disturbed as that around San José & the Mascata Central.

14 Aug. San Isidro del General, Prov. San José to Rest. "La Georgina", Prov. San Jose

up by 8 & on the road up to Canáan. This rd takes of N from the SE end of town near Rest. "Bavaria". It is a moderately good gravel rd that winds up a hilly valley. The habitat is quite disturbed with much banana & cattle. Very scenic tho, w/ one large rocky river. Returned to San Isidro then drove back up to "La Georgina" for lunch. Got permission to set nets in the woods behind here. It is lacking in much understory except for some ground orchids (in bloom) & short trees. The ground slopes moderately to the N & there are some nice big trees. Set 9 nets (160') in here in a large arc down & around the restaurant. Had dinner & got a room & rested 'till sundown then set up nets. Got ~ 5 Sturnira + 2 Eptesicus

14 Aug. (Cont'd) right off. ~8:30 started raining & sat in car 'till 10:45 when it slackened & rechecked & took down nets, getting the other Stunniva. To bed after a fairly miserable night by 12.

15 Aug. Rest. "La Georgina" Prov. San Jose to Limon, Prov. Limon

Breakfast & on the rd by 9. Drove to Cartago then took the rd. to Turrialba (C→Turr. ~2 hrs) in a driving rain. Today is Mother's Day & everyone is on the rd & in cemeteries. In Turrialba, went to the IICA headquarters just S of town to check out the pond here that Sam Sweet suggested. The pond is a small marsh, little open water & too big to net. No fruit trees or bananas near by - a manicured lawn. Went back to town for lunch at the Hong Kong Rest. & Ray got in touch with his mother's freind Juan Yee, a very successful businessman. Went to his house & met the family & carried on a conversation in Chinese (Ray & Juan), Spanish (Ray, Juan & family) & English (Ray & me & daughter Rosalia). After ~2 hrs hit the rd. for Jaggüires, (~1½ hrs), a real dump of a town w/o hotel. We looked at the many rivers along the Hwy on to Limon & found one (Rio Pacaurito) that was the right size & with some excellent forest N of the rd. I processed bats & Ray cut poles

Aug. (cont'd.) and got 2 nets up by dark. The good riparian habitat actually extended only a little way. The moon is near full & by 8 PM was overhead — very bright & no bats (saw 2 Saco. flying earlier but not now). Down nets & drove to Limon (~45 min) & got a room ($140+) at the fancy Hotel Acon. Dinner in their nice restaurant & to bed frustrated at R.

16 Aug. Limon, Prov. Limon

Up by 9 & read for a while, breakfast downstairs. Ray called another of his mother's friends, Alfredo Yee, then we went to see this funky coastal town. Took a turn thru Parque Vargas but saw no sloths. A black dude, whose English had little Carribean accent, told me they would be out later in the PM. We talked for a while (found out one can score "anything you want, man" at this park around 6:30 - 7 most nites) then went to the mercado and generally ambled around until we met Alfredo at the Acon at 3. Talked for a while then went out to the small fishing village of Portete N of town on the Main Rd. (Had been by here earlier looking for habitat, but there is nothing good). He wanted to pick up lobsters from a boat of his that was out fishing & we waited 'till ~ 6:00 for this.

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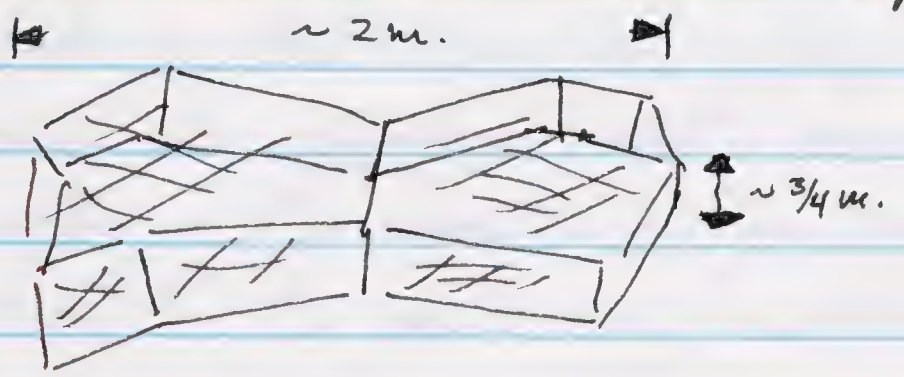
Fuy (cont'd.)

Watched the boats come in, be dragged up on the beach on rollers, etc. Many niños swimming around a rusty tub beached in the middle of the bay. Several frigate birds soared overhead, occasionally diving down for the fish used to bait the lobster traps:



made of wooden poles with sharpened tips & chicken wire. For buoys, they use a 1½ m. chunck of bamboo (~1 ft diam) painted w/ white bands w/ the numbers on the white. The boats used are basically variations on a canoe and many are carved from one tree trunk — very ocean worthy, but they don't often look that way close up.

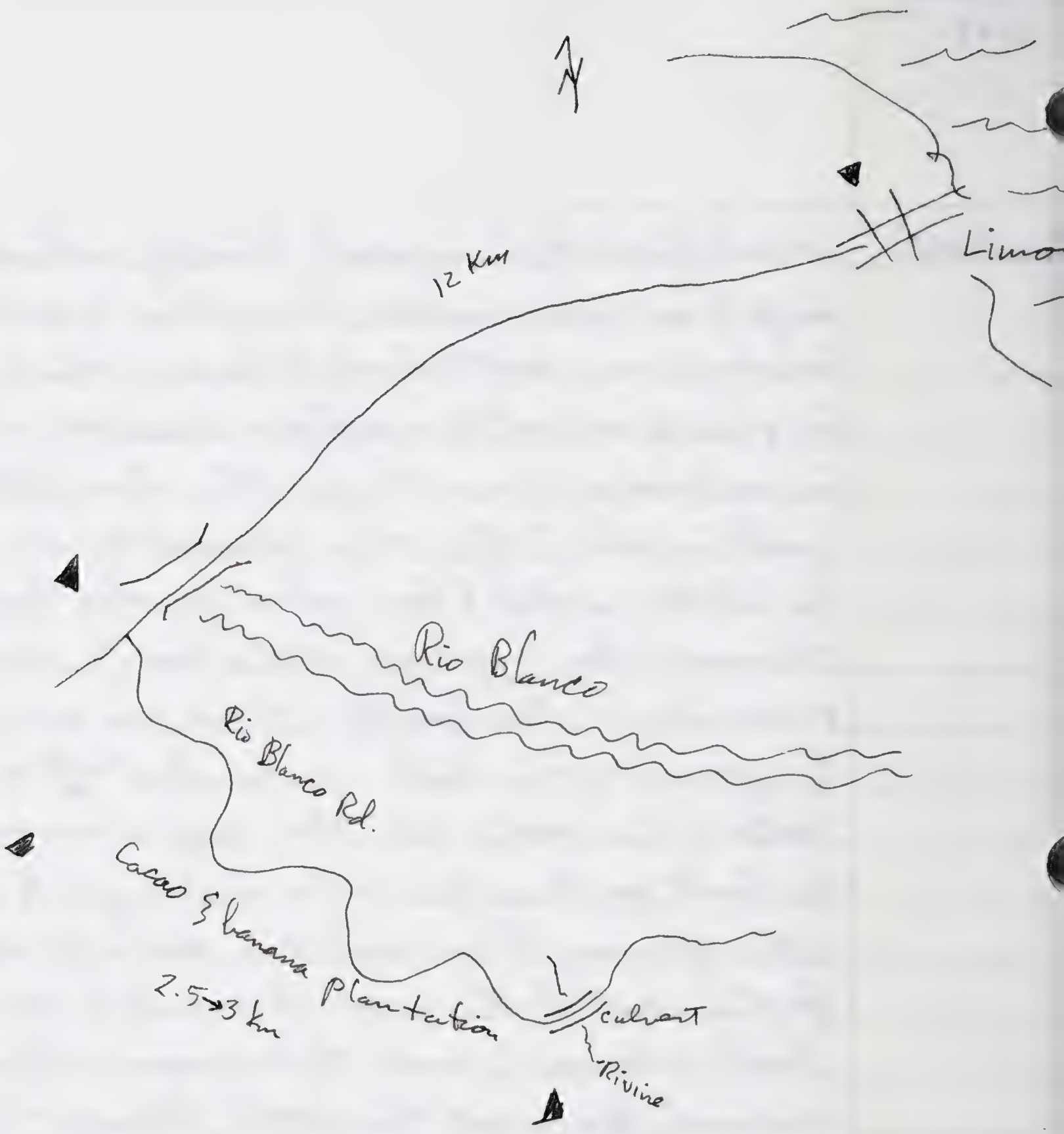
Alfredo's boat came in & one man who knew where boats were on a nearby Finca said a gringo had recently paid a Finca worker 2½ Colones per boat & snake for a live shipment & none were left. Couldn't find out anything about the purchaser to help identify him.

Took the lobster home for a dinner en famille at Alfredo's store across the

4 Aug. (Cont'd.) street from the hospital. Family includes wife & her (neat) mother, daughter (highschool in Houston) son, brother (~30) & his son (also to states for private school) & a nephew recently over (as was brother) from China. The daughter spoke good English & the 2 of us played cards while the others cooked & Ray had a gay old time in Chinese. An "appetizer" of the legs & uncleaned primary leg of the beasts — these are very good & apparently the tails are trucked off to the States & the locals eat the legs - obviously the best part as the tails are tough & with little flavor. Then had rice, tails & steak for the rest of the meal. Around 8:30 drove back to town & took the room Alfredo had reserved for us at the Hotel Miami — the only hotel in town with parking - air conditioned for ~ ¢80. to bed ~ 1.

5 Aug. Limon, Prov. Limon

Up by 8 then to Alfredo's where we were served breakfast. We then spent ~ 1½ hrs trying to catch Molossus _____ in his roof, getting 7. There were maybe 30 there, most down in the angle of the roof. It was very hot & cramped up there. The bats did not fly but scurried into crevices & under the plastic spread


N
12 Km
Limo
Rio Blanco
Rio Blanco Rd.
Cacao & banana Plantation
2.5→3 km
culvert
Riviine

7 Aug. (Cont'd.) over the ~~roo~~ ceiling boards to keep guano from falling on the beds. After cooling off, we processed the 7 on the sidewalk, attracting the usual large crowd. Had a quick lunch of fried lobster & rice, then Alfredo took us out to a culvert 2.5 to 3 Km S on the Rio Blanco rd which is 12 Km up the Hwy from Limon. The culvert has 5 pipes ~ 1 m. diam set in concrete under this Finca road (cacao & bananas). Saw bats in the pipes so set a net & Ray threw rocks. Did this twice & got all bats from the culvert (one or two maybe got out). 15 Macrophyllum (short rostrum & very large feet), 2 Micronycteris cf Megalotis & 2 large Glossophaga . It was really hot, but we had fun getting these. Then drove up further on the road but found nothing more so returned to town. We went back to the Miami, showered, had dinner & processed bats. Talked & read, to bed by 12.

8 Aug.

Limon, Prov. Limon

Up by 8 & on the rd by 9:30. Spent the day until 2:30 driving down the gravel roads off of the main Hwy looking in culverts & under bridges. Saw no bats. There is also very little habitat along these roads - all plantations with

Aug. (cont'd.) very small rocky streams. Got to Sagquires at 2:30 & headed back to Limon absolutely exhausted and frustrated. Napped, showered and had dinner, then talked 'till 10:30 & bed.

Aug. Limon, Prov. Limon, to Turrialba, Prov. Cartago

Up at 7:30 & to Alfredos by 8:30 for breakfast. We spent a few hours getting set, then left the port at Moin going up the inland passage N by boat. There is mangrove near Moin that gives way to palms & nice forest. We went 15-20km N to Laguna Maganta (?) where a river breaks thru the barrier island to reach the sea. Spent until 4 here walking the beach, fishing & eating - generally relaxing. On the return stopped at mouth of the Rio Torro for a sandwich - saw a crocodilian here (3-4' long) & many small fish. Back at Alfredo's by 4 we were on the rd to Turrialba by 4:30. Between 5 & 5:15 we saw 2 sloths (Bradypus griseus - 3 toed) crossing the road. Got pictures of these strange animals. Used a stick to get one out of the way of some trucks & he clawed onto it - quite a strong grip. Hit Turrialba after dark & got a room at the Hotel Central (another wanley may have been better) w/ parking (¢ 30) and a very hard bed. To bed - 11.

20 Aug.

Turrialba, Prov. Cartago to San Jose

Up at 7 with diarrhea & aches all over. Drove up to Santa Cruz on the rd to Irazú — no habitat, save at a small rocky river with very steep sides. Returned to town & met up w/ Juan Jose who took us on a tour of the IICA grounds, then lunch at the Rest. Nueva Hong Kong. By now am sure I have turista & on the drive to San Jose am quite nauseous. We drove out of town thru Heredia on the Volcan Poas rd. up to Vara Blanca, a Gardner locality. This area is pastureland with intermingled copses & we may have found habitat but I was feeling pretty bad. Back to town thru Alajuela (a much better road) & a room at the tala. To bed miserable at 9.

21 Aug.

San Jose

up at 7 & feeling slightly better but still with runs. Start packing & go to Pan Am to get on tomorrow's flight home. I get queasy so come back & packed & took it easy while Ray did all the town work. Export permit OK, but he had some tense moments trying to get to the University to drop off one of each

21 Aug. species & get back before everything closed. Turned in car ($620), finished packing, dinner at El Escorial & to bed by 11:30

22 Aug. San Jose, C.R. to Berkeley

Up at 5 & got a cab to airport, arriving 6^Am, checked in, paid $5/per for exit charge then waited for the 7:35 flight of Pan Am 542 to Guat. City. Rolf Koford showed up to see Jack Bradbury & Sandy Vanerkamp off on the same flight! They had found a roost of 50 Furipteru at Finca La Selva a week earlier. Flight to Guat. City uneventful, over the Nicaraguan lakes. Pan Am 516 from G.C. to SFO was delayed 2½ hrs by a work slowdown by passenger service agents, so made several trips to the duty free shops. The Tourists of the last few days seems to have passed.

Customs in LA was harried, but no problems. We were the last back on 516 for the hop to SF and discovered one bottle of Maalox spilled in Ray's pack. Finally arrived SFO at 7^PM where Ted Papenfuss was waiting. It took 2½ hrs, tho, for the luggage to show up. Back in Berkeley by 10^PM.

O. Stranney

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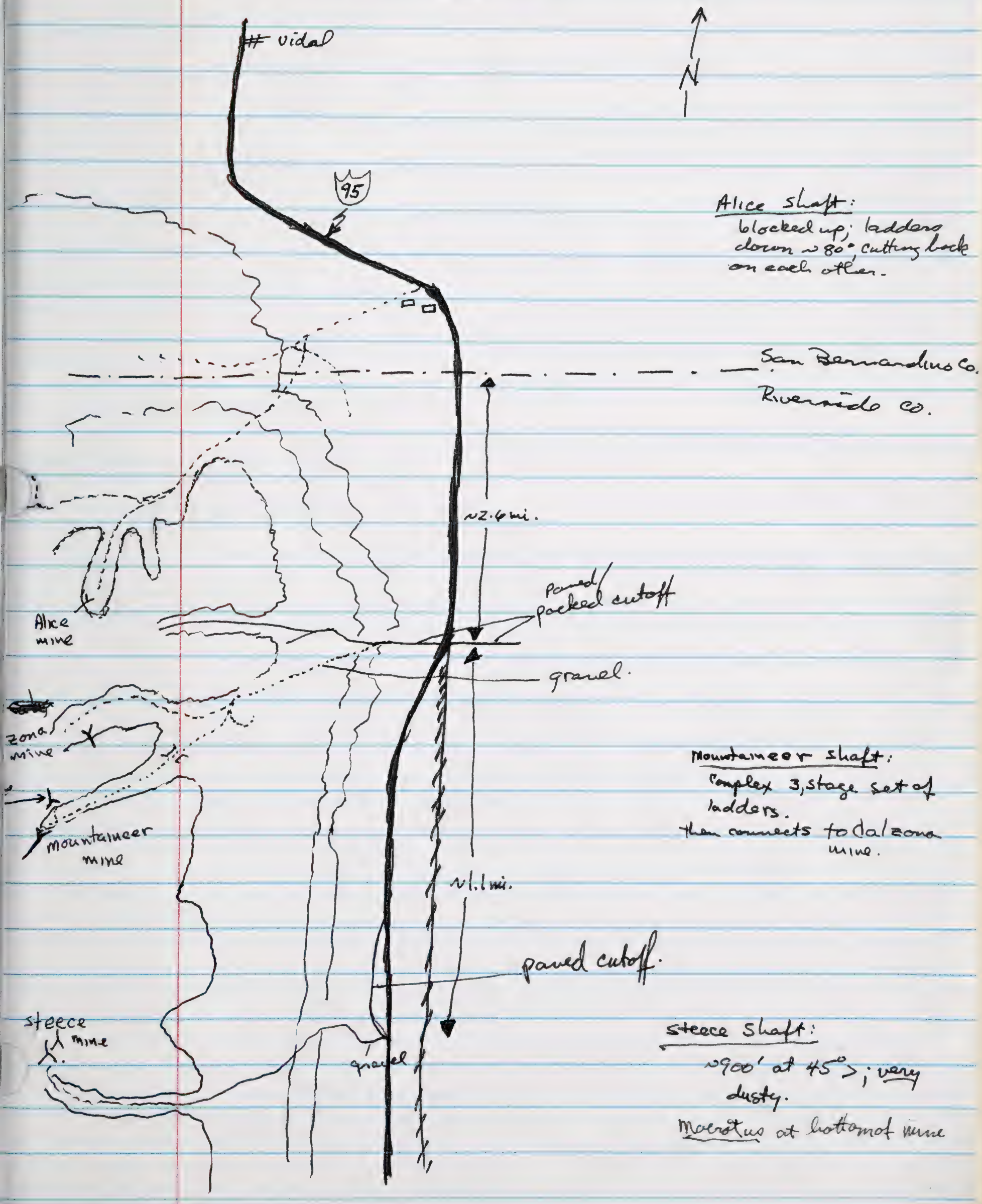
Riverside mt. lost areas



Alice shaft:
blocked up; ladders down ~80° cutting back on each other.

Mountaineer shaft:
complex 3, stage set of ladders.
then connects to Calzona mine.

Steece Shaft:
~900' at 45°>; very dusty.
Macrotus at bottom of mine

13845